

## SEQUENCE LISTING

&lt;110&gt; Gary L. Breton

&lt;120&gt; NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRAGILIS FOR DIAGNOSTICS AND THERAPEUTICS

&lt;130&gt; 2709.1001-001

&lt;160&gt; 10444

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&lt;211&gt; 420

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

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&lt;212&gt; DNA

&lt;213&gt; B.fragilis

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&lt;213&gt; B. fragilis

&lt;400&gt; 5

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&lt;213&gt; B. fragilis

&lt;400&gt; 6

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 <213> B.fragilis

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<210> 18  
 <211> 444  
 <212> DNA  
 <213> B.fragilis

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 <211> 486  
 <212> DNA  
 <213> B.fragilis

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 <211> 723  
 <212> DNA  
 <213> B.fragilis

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 caacgtggtt atgaaaagca tgatccgatt gaagtttttg taaatcaaga cggagcttat 240  
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<210> 21  
 <211> 429  
 <212> DNA  
 <213> B.fragilis

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 gacaataccg ttataatacc aaattttttg agacgtcgat ttattgtgag tgtagaatat 360  
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<210> 22  
 <211> 1263  
 <212> DNA  
 <213> B.fragilis

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taa						1263

&lt;210&gt; 23

&lt;211&gt; 2574

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 23

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&lt;210&gt; 24

&lt;211&gt; 883

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 24

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&lt;210&gt; 25

&lt;211&gt; 513

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 25

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&lt;210&gt; 26

&lt;211&gt; 273

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 26

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aatttatatta tagaattaaa aggaaatatt gcc 273

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<212> DNA  
<213> B.fragilis

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<211> 1482  
<212> DNA  
<213> B.fragilis

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<210> 29  
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&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 29

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cttgctgtag	actccacaat	ggggcatccg	gaaggttata	aacttcaaata	cactcctgaa	360
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&lt;210&gt; 30

&lt;211&gt; 2943

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 30

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tag						2943

&lt;210&gt; 31

&lt;211&gt; 2361

&lt;212&gt; DNA

&lt;213&gt; B. fragilis

&lt;400&gt; 31

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cccggaacag	cggaaaagcc	gatggctact	ttagaatatg	cctggaaaaa	ggcctcacgg	180
caggccggcc	ggcgttccat	caccatctac	tgcgaaggca	ccaactacct	gtccgctccg	240
attcttatca	caaacgagac	ttcgggcaca	cccgaacatc	cgatccggtt	ttcttcgtat	300
cccggaacaa	aggcgggtcat	cagcgggttcg	cgtatactcc	ggaacctgcg	ttggaaagag	360
tataaaaacy	gtatcatgca	ggccaaagtg	gaagaagaac	tgatccccga	ccagctcttt	420
gtgaacggga	aaaaacagat	atcggcacgg	tatccgaatt	ttgatccgga	tatacgcatc	480
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&lt;210&gt; 32

&lt;211&gt; 1608

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 32

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&lt;210&gt; 33

&lt;211&gt; 183

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 33

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tag						183

&lt;210&gt; 34

&lt;211&gt; 1530

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 34

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&lt;210&gt; 35

&lt;211&gt; 1272

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 35

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aaatgggact	aa					1272

&lt;210&gt; 36

&lt;211&gt; 1464

&lt;212&gt; DNA

&lt;213&gt; B. fragilis

&lt;400&gt; 36

aataggatta	tggaacaata	cacattcaat	atagcgggtg	gcgtggcacg	caaccgcctt	60
gtgcgttttg	cacaacctgt	cacagcacia	atcgctaccg	gcgaacatat	cgccatcgta	120
ggacccaatg	ggggagggaa	aagcttgttt	gtagacacgc	ttttgggtaa	atatacctttg	180
cgtgagggtta	cattggacta	cgatTTTTct	ccttcttcta	cccggacggt	atatgataac	240
gtgaaatata	ttgctttccg	tgacacctat	ggggcgggcg	atgccaaacta	ttactatcag	300
caacgctgga	atgcccacga	tcaggaagat	gcccctaccg	tgccggagat	gttgggagag	360
atcaaggatg	aaagactgaa	agaggaattg	ttcgaactct	tccacatcga	gccattgttg	420
gacaagaaga	tcattcttct	ttccagtggc	gaattacgta	aatttcaact	gactaaaacc	480
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attcttgtgc	tttcgatgct	cgatgatata	ccttcgttca	ttacccatgt	gattccggta	660
gaagacctgc	acgtgcttcc	gaaaatggaa	agggaggctt	atctggcttc	attttgtgtg	720
accgatgagg	ccgaagtcc	ggacgcactg	caacagcgta	tagccggatt	accttatgac	780
ggagcaaact	atgactccgg	ggaggtggtta	aaattaaata	aggtaagtat	tcgttatgat	840
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cgcccgcagg	aaagccagat	ggctgcctgc	gagtggtgga	tggatgtgtt	cggcattgtg	1200
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gcccgtgctt	ttgtgaaaga	tccggaattg	cttattctgg	acgagccgct	gcacggactc	1320
gatacgtaca	atcgccggcg	ggtgaaaaag	attatcgaag	ctttttgccc	tccggcaggac	1380
aagacgatga	ttatggtaac	ccattacgaa	tccgaactcc	cttctaccat	caccgaccgc	1440
cttttctcta	aaagaaatcg	ttga				1464

&lt;210&gt; 37

&lt;211&gt; 1113

&lt;212&gt; DNA

&lt;213&gt; B. fragilis

&lt;400&gt; 37

gagaaaataa	tctctgtgga	actctgtgta	atctgtgggtg	aactcaaaac	cattacaatt	60
atgaataaaa	taatagaact	gttgggaaat	caggctgaat	attacctgaa	ccacacttgc	120
aaaaccattg	ataaatcact	gattcacgta	ccgtcaccgg	atacaatcga	taagatatgg	180
attgactctg	accgtaacat	acagactttg	cgcagtttgc	agacattgct	ggggcatggt	240
cgtctggcaa	acaccggata	tgtatccatt	cttcgggtcg	atcaggacat	cgaacatacg	300
gccggagctt	cgttcgctcc	gaatccgatt	tatttcgata	cggaaaacat	tgtgaagctt	360
gccattgaag	gcggttgtaa	tgacgttgca	tccactttcg	gcaatctggg	tgctgttgcc	420
cgaataatg	cgcataagat	accgtttgta	gtaaaaactga	accataatga	gttgttgtct	480
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gcagtggctg	taggtgctac	tatctatttc	ggttccgaac	agagtgcgcg	ccaattgggtg	600
gaaatcgctg	aggttttcga	ttatgcgat	gaactgggta	tggccaccat	cctgtgggtgc	660
tatctgcgta	acaacgagtt	caagaaagat	ggtatagact	atcatgcggc	tgctgacctt	720
accggacaag	ccaaccgtct	gggagttacc	atcaaggccg	atatacgtaa	acagaaattg	780

ccgactaaca	atgggtggttt	caaagcgatt	catttcggaa	agacggatga	aagaatgtat	840
accgagctga	ctacggacca	tccgatcgat	ctttgccgct	atcaggtggc	caatggatat	900
atgggacgtg	tcgggctgat	caactccggt	ggagagtcac	atggagcgtc	cgacctgaag	960
gatgctgtcg	ttacggcagt	agtaaacaaa	cgtgccggcg	gtatgggatt	gatcagcggg	1020
cgtaaagctt	tccagaaacc	catgaacgaa	ggagtggagt	tacttcacgc	cattcaggat	1080
gtctatctgg	atgcgtctgt	caccattgcc	tga			1113

&lt;210&gt; 38

&lt;211&gt; 747

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 38

atgaaaaaga	ttgtattgct	ccgtcatgga	gaaagtgc	ggaacaaaga	gaaccgtttt	60
accggttga	cagatgtcga	tctgacagaa	aaaggaattg	ccgaagcctg	taaagcaggc	120
gaactactga	aagagaatgg	atttaacttc	gataaagctt	atacgtcata	ccttaaacga	180
gcggtgaaaa	cgctgaattg	cgtactcgac	cggatggatc	aggactggat	tccggtagag	240
aaaagctggc	gcctgaatga	aaaacattac	ggcgatctgc	aaggactgaa	caaaagcgaa	300
acagccgcta	aatacgggga	tgaacagggtg	cttatctggc	gcaggagtta	tgatatagct	360
ccaatgccc	tgctcggaaga	cgatccgaga	aatccccgct	ttgagaatcg	ttatcaggaa	420
gtacccgatg	cggaacttcc	ccggacagaa	tctctgaaag	ataccatcga	acgtatcatg	480
ccttattgga	agtgtatcat	cttcccgaat	ctgaaaacgg	ctgatgaaat	tctggttggt	540
gcccacggaa	atagtttgcg	cggcatcatc	aagcacttga	agcacatctc	cgatgaagag	600
atcgtaaaac	tgaatctgcc	gactgccgtc	ccttacgtat	ttgagttcag	tgacgaactg	660
aatctggaaa	aagactattt	cctgggtgat	cccgaagaaa	tccgtaagtt	gatggaagcg	720
gttgccaacc	agggaaagaa	aaaataa				747

&lt;210&gt; 39

&lt;211&gt; 2307

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 39

aagccactat	ctgccggaga	acgcttaagc	aacagagctc	tgaaccacaa	acatccattt	60
ggttcctccc	gtttcatttg	tgaatataat	gaagtatatc	ttactttgca	cacacaatgc	120
atatttcata	acatcaacaa	caataccatg	aaaaaattac	ttgcaacatt	actgattcct	180
gtagcttgta	ttcatgtcaa	tgcacaagag	tccatacaga	ttcgcatctc	gacagatcgg	240
acggacctta	tccctggaagt	tgctccggac	ggacgtctgt	atcaatctta	tctgggtgac	300
agactactga	acgaacaaga	cctgaaaaac	ctttccggct	cctcacgagg	atgggaagtc	360
tatccgggtt	cgggtggaga	agattatttc	gaaccggctg	tagccattac	gaacaacgat	420
ggcaatctca	gcacgatcct	gcgttatgta	tcttcggaag	agaaagcagt	ggaaggtgga	480
acagaaacca	tcattccggat	tgaatgatgc	caatatccgg	tggacgtcac	actgcactat	540
gtagcctatc	ctaaacaaaa	tgcatcaaaa	acatggagcg	agatcaagca	tcaacaaaag	600
aagccgggtc	tggttatggcg	ttatgcttcg	acaatgcttt	acttctcaaa	ccaaaaatat	660
tatctcaccg	aattcagcag	tgactgggct	aaagaggtgc	agatgagtac	acagcaattg	720
caaccgggca	aaaagattct	cgatacgaag	ttaggtagcc	gtgctgccat	gcacatgcaa	780
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ttacgaatca	tccctgctat	caatccatac	gcctcggact	atcaattgaa	agcaaacgaa	960
acatttacca	ccccggagtt	tatctttacg	ttgagtaaca	acggtacggg	tgaagccagc	1020
cgtaatctgc	acaattgggc	acgcaactac	caactgaaag	acggcaaggg	agaccgaatg	1080
actctgctta	ataattggga	aaatacttac	ttcaccttcg	atgaagaatt	actgggcaaa	1140
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ggcaacaaac	atccgcgcaa	cgatgaccat	gccggcctgg	gcgattggga	agcgatgaaa	1260
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cttgacctga	gcaatccctaa	agtacaagac	ttcgtgtttg	gtgtcgtaga	taagattatg	1500
acggagaatc	ccgatgtagc	cttctttaaa	tgggattgca	acagtccgat	tactaatatt	1560

tattcgccctt	acctgaaaga	taaacaagga	cagctctaca	tcgaccacgt	gcgcggtata	1620
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ggtggaggtg	cacgttggtg	ttatgaagca	ctgaagtact	tcaccgaatt	ttggtgttcg	1740
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gccaaagcga	tgtgtgcaca	cgtaacaagc	tggaaacagca	aaacaagtgt	gaaattccgc	1860
accgatgttg	ccagtatgtg	taaactcggg	ttcgacatcg	gactgaaaga	catgaaagca	1920
gatgaactta	cttattgcca	ggaagcagta	gccaaattata	aacgcttgaa	acctgtcatt	1980
ctagatgggtg	atcaatatcg	tctcgtatct	ccatatgatg	gcaaccacat	ggcagtgatg	2040
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ggcgagaaac	tactaccggg	aaagctccgg	gggcttgatg	cccaaaagat	gtaccgggtg	2160
aaggaaatta	atctgatgcc	gggtcggaaa	tccaatttgt	cgggtaatga	aaaaatcttc	2220
tccggtgact	atctgatgaa	aataggattg	aatgcattta	caacttcaca	aaccaatagc	2280
cgggtaatat	agttggtagc	agagtaa				2307

&lt;210&gt; 40

&lt;211&gt; 1218

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 40

atgatgaagt	tgttccgcga	gatattgatt	atltgtcttc	ttgggaagtt	aatagcttgt	60
tcgccattag	cttccgggga	gataaatgat	gtttggggac	ataaacaagt	ggctacgatt	120
gaaatggcag	gctctgatag	cgtttgggtc	tgccacttgt	ctatgttgaa	ggatacgggt	180
actgtacctc	ttagttattt	tgtcgaggag	ctggaaatgg	tcaaacttga	taatcgggat	240
gctgcattgg	tatcttcttc	caaaacaatt	attggcaaac	aatatatttt	agtacataaa	300
atggggcatg	tccctttcaa	actttttact	aaaagcggga	cttatttgag	ggatattcgg	360
tcctttgggtc	aagggtgcggg	tgaatatggc	ttagcttatg	atgcacagat	ggatgaggag	420
aataaccgac	tttatgtgtt	atgttggcag	gccgaccata	tcttgggtatt	cgatttacia	480
ggaaatatac	ttcaaccgat	tcgattggcg	cattgggtcac	ctaaaggggt	atttcatgta	540
gaaacggaac	gaggacgagt	gcatgtttgt	gctctttctt	ttaatcgtga	ctttgtaggt	600
gataggcatt	cgcctatgat	ttggacgcaa	agtttggatg	gcaagattat	aaaagaactt	660
ccggcagggg	atltggccgt	gaatgattat	ggaaatgaaa	tcaaactctc	aaataatggg	720
acgggtgatg	acattgggtt	ctgggttggg	ggccaatata	gtaacgattc	attatatcac	780
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ttgacccac	acagcttcgg	agagttgocg	aatcacttct	ggggagaaat	atcatatcct	900
gtaaggctaa	gtccacattc	gtcaactacc	actcctccgg	aatattatat	ggttgataaa	960
catactttac	gaggcgcttt	tgttgaaata	tacaatgatt	tcttaggggg	cattcctgct	1020
gactggttct	tttcatctca	tgacggatat	tatgtttgga	atgttgaacc	tgtacgattg	1080
aagcaaattg	ttgaggatcg	tttgtcttca	ggtgagattg	tctcggattc	ggaccgaaga	1140
aagctaaccg	aactgcttag	gagtactaaa	gaaaacgata	acaattatat	tttctatggt	1200
cgattgaaat	gtagatag					1218

&lt;210&gt; 41

&lt;211&gt; 1203

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 41

ctgatatttg	ccacccact	cttctacgag	ataattcatc	tgagccaatg	tctctttaat	60
tttctcggga	ttagcatgag	gcttatctat	tttattaata	gcaaatacga	taggaacacc	120
tgctgctgct	gcatgattaa	tggtctcttt	gggtctggggc	attacatcat	catcggcagc	180
tacaataata	attgcgatat	cggtcacctt	tgcaccacgg	gcacgcattg	cagtaaatgc	240
ctcatgtccc	ggagtatcga	ggaacgtaat	cttacgtcca	tcttccaatg	taacatgata	300
tgcaccaata	tgtgtgtgtg	tacctccggc	ttcacctgca	attacatttg	ctttacgaat	360
gtagtcaagc	aacgaagttt	taccatgggtc	tacgtgtccc	atgactgtaa	caatcgggagc	420
acgatgttcc	agatcttccg	gcgcactctc	ctcttcaaca	atggcttggg	ctacttctgc	480
actgacatat	tcagtcttaa	atccaaattc	ttcagccaca	agattaatcg	tttctgcatc	540
cagacgctga	ttgatagaaa	ccatcatacc	aatgctcata	caagttccga	taacctgatt	600
tacagatacg	ttcatcatgc	ttgccaatcc	attagcagtc	acaaattctg	tcagtttcag	660

taccttgctt	tctgccattt	cctgatcttc	cagttcctgc	atacgggttg	acgccatgtc	720
acgtttttct	ttacgatatt	tggcaccctt	gttcttacct	ttgcttgta	gacgagccaa	780
cgtttcttta	acctgctttg	ctacatcttc	ttcgcttact	tcctgcttta	ctacaggctt	840
tttgaagcgg	tctttattat	tgttattacg	gtttctattc	tgtccgccgc	caccttggtg	900
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agcaacattg	ttcacatcta	ctttttcctt	attattgttg	atgcgattac	gtttcttctt	1020
accgttagga	tcaagggttt	ccttaccaac	gaccttagct	tgtttactat	cttctttacg	1080
gatttccttg	atgatggctt	ccttcactct	tttcttctga	tcctgacgaa	gcttttcctt	1140
ctcttcacgc	tctttccgct	tttctctctt	cgatttcttc	ttcggacgtg	tcgactgatt	1200
taa						1203

&lt;210&gt; 42

&lt;211&gt; 525

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 42

tttaatgcag	ccaagtcaat	ctgcccagata	acattaatct	tagatacaaa	ctcagtcgga	60
cggatcttaa	atacgccttc	ctcttccttc	tctactggag	taaccggtgc	ttctgctacc	120
ggtttctctt	ctttcttctc	tgttttttct	ggagacacca	cgacttttgg	ttcttctttc	180
ttgacttctt	caaccacttt	cttttctggt	tcaacaggct	tttcaaccac	caccggtttc	240
ggttcttctt	tcaccggttt	cggttccgaa	gtagcaggag	tcacagtgac	ttcttctttt	300
ttcacttcga	ttacaacagg	cttaacctct	tccgctaact	tcttttcttc	agcagctaca	360
ggttggtggt	ttggctcttc	tttcatcggt	tctttctcaa	ccttccggtt	cagtttatct	420
aatcaattt	ttccgacagg	tttaaacttc	ggacgcacat	cttccggaat	gaccgtctta	480
atcacatcgt	cagcaacagt	cttctccggt	tccttcttat	cataa		525

&lt;210&gt; 43

&lt;211&gt; 1269

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 43

ataattatgg	ccaagaaaga	agaaacaatc	agcttgattg	atacattttc	ggaatttaag	60
gaactgaaga	atatcgatag	aaccacgatg	gtaagcgtgc	tcgaagagtc	gttccgcagt	120
gtgatcgaga	aaatgtttgg	cactgatgaa	aattacgacg	taattgtgaa	cccggataag	180
ggtgactttg	aaatatggcg	taaccgtgag	gtagtggcag	acgaggattt	gactaaccgg	240
aatatgcaaa	tttcgttgac	tgaagcacia	aaaatcgatg	cttcttacga	agtgggtgaa	300
gaagtaaccg	atgaagtgat	tttcgctaag	ttcggtcgcc	gtgctatttt	gaatcttctg	360
cagacactgg	cttctaaaat	tcttgagctt	gaaaaggaca	gtattttata	taaatacatt	420
gataaagtga	gtactatcat	caacgcagaa	gtataccaga	tctggaaaaa	agagatgttg	480
ttgcttgacg	atgaaggaaa	cgagttattg	ttgccgaaaa	cagagcagat	accaagcgat	540
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tatttggacg	agttcagaga	tgaatcgac	ggatgggtga	tcgatgctat	caaggctatt	1140
ggcattgata	cggctaagtc	tgtattgaat	gcacctcgcg	aaatgctgat	tgaaaaaacg	1200
gatcttgaag	aagaaacggt	ggacgaggtg	ttacgcattt	tgaatcgga	gtttgaagat	1260
aatgaataa						1269

&lt;210&gt; 44

&lt;211&gt; 855

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 44

cttccctttt	actattacgc	agacggacgg	aaattccata	ttacaatggt	tggacgaggt	60
tattttttgga	aaagaataga	taatgaaata	attgataaga	tcattgttaga	gataaaagac	120
ctgcatgccca	gcattaacgg	caaagagata	ttgaaaggca	ttaacctgac	ggtgaagccg	180
ggcgaagtac	atgccattat	gggacctaac	ggttcgggta	aaagtacgct	ttcgtctgtt	240
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tcgggtggag	agaaaaaacg	gaatgagatt	tttcagatgg	ctatgctcga	accccgcttc	600
agtatcttag	acgagactga	ttccggactc	gatatcgatg	cgcttcgtat	tgtagccgaa	660
ggagtaaata	aactgaaaac	tcccgatacc	agttgtattg	tcatacccca	ctatcagcgt	720
ctgctggact	atataaagcc	ggacattgta	catgttcttt	acaaaggacg	tattgtaaag	780
actgccggtc	cggaactcgc	tcttgagttg	gaagagaagg	gatatgattg	gattaagaag	840
gaattaggag	aatga					855

&lt;210&gt; 45

&lt;211&gt; 195

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 45

ttgtggggct	attggcagca	aaagcctttg	tacacctcac	tggctgtgaa	gttatgccct	60
acggtgaccg	actccatgac	tgtggcgag	atactggcat	ttatcattat	ctggatcgct	120
gtggcgcta	atctttacat	tggtggcttc	agtattaacc	aaggcattgg	aggcggtttc	180
acttggtg	cctga					195

&lt;210&gt; 46

&lt;211&gt; 348

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 46

tataaacctc	taaataaaac	aagaattatg	ttattagcaa	ccactccaat	catcgaagga	60
aaacgaataa	ccacttatta	tggcattgtg	tccggagaaa	ctattatagg	tgccaatgtc	120
ttccgtgact	tttttgccag	tattcgtgat	atagtaggcg	gacgctccgg	ttcatacgaa	180
gaagtgcctc	gtgaggcaaa	agatactgct	ttgaaagaaa	tgtctgaaca	ggctcgccaa	240
atgggcgcta	atgctgtgat	cggagttgat	ttggattacg	aaacagttgg	gggaagtggc	300
agtatgttga	tggtaaactgc	tagtgggacg	gctgtgttct	tggaataa		348

&lt;210&gt; 47

&lt;211&gt; 1662

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 47

attagcctgt	atatacctac	caccggacag	ggatatacag	gctattttac	cttacaaaaa	60
caacacctta	tgaaaaagaa	gaaagttact	acttattgct	gcctcctgtt	attggcaagc	120
tttttcacaa	ctgtcacggc	acaaaacaca	aatactccca	tgatgggggtg	gagttcatgg	180
aacaccttcc	gagtacatat	taatgaagaa	ctaattaaag	agacagctga	tgccatggctc	240
aaccggggtc	tgaaggatgt	aggctatgga	tatgtgaaca	tagacgacgg	atactttgga	300
ggacgaaatt	cggaaggacg	tctttttgcc	aataagaaaa	aattcccga	tgggatgaga	360
gtcctgtccg	actatattca	ttcaaaggga	ttgaaagccg	gtatatattc	tgatgcgggc	420
agcaacactt	gtggctccat	ctatgacgca	gatacactcg	gtatcgggtg	agggcittgg	480
aaacacgatg	atatagactg	ccaaaccttc	ctcaaagact	ggggatatga	tttcattaaa	540
atagactggg	gtggcggtga	agcaaccgga	caaagtgagc	agcaacgtta	tacggatatc	600

tacaaagcga	tcagacggac	aggacggaca	gatgttcgat	ataatatatg	ccgttggcag	660
tttccgggca	cttgggctac	ccagttggca	ggttcctggc	gaatccatac	agacatcaat	720
ccacgattca	caacaatcga	ccgaatcatt	gaaagaaatc	tctacttagc	accttacgca	780
agcccggggc	actataatga	catggatatg	cttgaagtag	gaagagggct	cacggaagac	840
gaagaaaaaa	ctcatttttg	aatatggctc	atcttgtcct	ccccgttaat	gatcggatgc	900
gatcttcgta	caattcctga	aaaaacttta	tcgatcatta	ccaataagga	agtgategca	960
ttaaatcagg	attcatttagg	tctgcaggct	gaagccattg	aacgggggaaa	agactatctg	1020
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agaagcaata	cagatcagca	gatcagagtc	gatttcgata	agctctatth	atcaggggat	1140
gtacgagtaga	gagatctatg	gaaccatcaa	gaaatgggaa	cattcaccga	ttactatgaa	1200
acgctagttc	ctgcacatgg	aacagcttta	ataagacttg	aaggtagcaa	acgtcacgac	1260
cggacatggt	atgaagctga	atatgctttc	atgcaagaat	ttctgccaga	caacaaacag	1320
gcagctcatt	ttacaccaa	atcaggagcc	tcaggagaat	atattatgaa	aaatcttgga	1380
aattcacctt	ccaattgggc	agaattcaga	aacgtgtata	ttagcaaagg	aggagattat	1440
caacttaagt	taacttatta	ttcaggtgat	aaacgcgata	tccaaatagc	tgtaaacgga	1500
acagaatata	aacagtctaa	cctttattcc	ggtacatggg	atcaagcagc	tacaacaact	1560
atcaagggtta	aacttcgcaa	aggctataac	acgatacgtc	tgtataattc	gtacgggtgg	1620
gcacccgata	ttgataaaat	ggaaatcatc	aaaggtcgtt	aa		1662

&lt;210&gt; 48

&lt;211&gt; 1350

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 48

ataaccggac	aattcatgaa	aaacaccaac	cggtccattc	tccataaaga	tggagtaagt	60
tatatcctac	catttatctt	agtgacctct	tgttttgctc	tatgggggtt	tgctaacgat	120
attaccaatc	caatgggtgaa	ggctttctcg	aaaatattcc	gtatgagcgt	cactgatgga	180
gcactagtag	aagtcgcttt	ttacggggga	tactttgcaa	tggtcctttc	tgctgcaatg	240
tttattcgca	aatactctta	taaagccggt	atcctgttgg	gactggggct	atatgctttg	300
ggtgccttgc	tgtttttccc	agcaaagatg	acaggcgatt	attacccttt	tctgctcgct	360
tattttatth	tgacatgtgg	actctcgtht	ctggaaacaa	gtgctaattc	ttatatatta	420
tcgatgggta	cagaagagac	ggcgacccga	cgattgaatc	tggtcgcagtc	gtttaatccg	480
atgggatcat	tgctcggcat	gtatgttgcc	atgaatttca	ttcaggcgcg	tctgaatcct	540
atggatacgg	tagaacgcag	ccaattgtct	ccggcagagt	ttgaagtatt	gaaagagtcg	600
gatctctctg	tggtgattgc	tccttatctg	attataggat	tagtaattct	agcgatgctt	660
tttgtgatac	gtgccgttaa	aatgcctaag	aatggcgata	agaaccataa	tattgatttt	720
ataccacat	tgaagcgtat	ctttaaaatt	ccccattata	gagaaggagt	catagcacia	780
tttttttatg	taggtgcaca	gattatgtgt	tggtactttg	ttatccaata	tggaacgcgc	840
ttgtttatgt	cgcagggaat	ggaggagaag	gctgctgaag	tgctttccca	ggaatataat	900
ataattgcta	tgattatttt	ttgcataaag	ccgtttcgtg	tgtacattta	ttcttcgcta	960
cctgaatccg	gggtagcttc	tcaagattct	tcgattcgcg	gggtggtgctt	ttacgttagg	1020
tgtgattttt	ttgcaagaca	tatggggatt	gtattgttta	gtagctgttt	cggcttgtat	1080
gtcactaatg	tttcccacga	tttatggcca	ttgctcttcg	tggtttgggt	gatgatgcca	1140
aatttggggg	ctgccggttt	gattatggca	attctgggag	gctctgtgtt	gccaccatta	1200
caggcttgta	ttattgacca	acatacattg	ttgggtatgc	ctgctgtaaa	cttgtctttc	1260
atacttcctt	ttatctgttt	cgtagtgtat	atcatttatg	gacatcgtac	gtgtgcacgt	1320
gtgaagaaga	taaaagcagc	acgaaagtaa				1350

&lt;210&gt; 49

&lt;211&gt; 1722

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 49

gcaaagcggc	atataccatt	aatacggctt	tcgaactgga	acagaaactt	gacttccctt	60
accaaaggat	tgaattttta	agcactgggt	tcttttaaaa	actggctgaa	gacgactgtc	120
aatcgctcct	tttcacctta	cttttatgaa	ttacagaatc	ctcaggagca	agaagacgga	180
agctatcttt	atgattataa	ctctatcagt	aagggacgta	ccgctcttga	gacatcgact	240

tccactactg	gcgaccgtct	gatgaacctg	caggctacac	tgaactatca	gcgcatgttc	300
ggtgataaac	atgatgtcgg	agcaatgttg	gtatatcttc	agcgcggaata	caatctgaac	360
aatcctgaca	ataactatta	caatacattg	cgggaacgta	atcaggggct	ggccggacgt	420
gttacctatg	cttatgacgg	acgctatttg	gctgaattca	atttcgggta	caatggtagt	480
gagaacttcg	aaaaaggaag	ccgttacgga	ttcttcctt	cactcgctgt	cggctatctt	540
atctccaacg	agaaaatttt	cgaaccattg	acaaaagtta	tctccaactt	aaaaatacgc	600
gcttcgtacg	gattggtagg	taatgcggat	atcgggtcca	accgtttccc	ctatcttact	660
aaagtagatt	tgggtggagc	cggatttgta	ttcgggtgacc	agtggcaaac	ctcatctaac	720
ggagctacca	tcactactta	cggagctgaa	aaggtgacat	gggaaatcgg	taaaaagtat	780
aatgtaggat	tcgacctggg	attattcaac	aaattaagcc	tcaacgtaga	tttctttaga	840
gaagaccgta	aagacatctt	ccttagacgt	aatacaatcc	ctgcagaaag	tggtatcacc	900
ggagatctcc	gacctatgg	taatctgggt	aaggtacgca	atcaaggcgt	tgacatgtca	960
ttggactata	atcacgctgt	cagcaaagac	ttcatgatct	ctgccaaagg	tactttcaca	1020
tacgctaaga	accaatatat	ggaaatagac	gaaccggact	acgaatatgc	atacatgtca	1080
caagtaggac	gccccctgaa	tcagtataaa	ggctatatgt	cattaggact	cttcaaagat	1140
caggaagaga	ttgacaacag	tccaaaacaa	atactaaccg	gagttgtgca	accgggtgat	1200
attaaatatg	cagacctcaa	taatgacgga	aagatcgacg	gaaacgatca	aacttacatt	1260
ggtaatccgg	aattacccca	aatcagctat	ggtctgggag	tcagtatcca	gtacaaaaaa	1320
tgggatgctt	ccatcttctt	tcaaggagta	ggcaaaagaa	gcatcatgtt	gagcgacatc	1380
catcctttcg	gtggagaatc	gtatggtgtc	atgcaatttg	ttgccgataa	tcattggaca	1440
gaggcaaacc	cgaaccccgga	agcaatgtat	ccgagactga	caaacgggaa	aaacaacaat	1500
aataacccca	actctactta	ctggctgaga	gatggttcgt	atatccgact	taaaaacgtg	1560
gaattaggat	actcttataa	attttttacgt	gcctatatca	gcggacaaaa	cctgctgaca	1620
ttctctaaat	ttaaattatg	ggatccggag	ctctatacct	caaacggatt	aaaatatccg	1680
acacaaatca	tgggttccat	cgttttacag	ttcacttttt	aa		1722

&lt;210&gt; 50

&lt;211&gt; 1668

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (1640)

&lt;223&gt; Identity of nucleotide sequences at the above locations are unknown.

&lt;400&gt; 50

aatcaatgta	aatgtatgaa	aaagaaagca	attccttgct	ataaggcagg	gaggattacg	60
tccttttttt	tattaattag	tattttttta	cttataccga	gtatcactac	tccggtttat	120
gctgtagaaa	cttataccca	gcaaaactgt	tttacgcttc	acgcaactaa	taaaacagta	180
aaagaagtgt	ttgaatacat	cgaaaaaaac	agtgaatttg	tcgttttgta	ttcaaaagat	240
cttttacctg	tactgcagaa	gaaagtgtct	gtttcgatag	ataaacagaa	tgtagaatcg	300
attctgaata	tcttgtctaa	agaagcggga	ttgaagtaca	acatcaacga	ccgtcagatc	360
acaattacca	aagttacggc	agaagcacct	caacaggaaa	aaaaaatcaa	aatcaccggg	420
caagttcttg	acgaaaacgg	agaagggtat	ccgggagcaa	atatcgtaat	aaaaggcaat	480
agtacattgg	gaacagtaac	caatgtcgaa	gggaacttta	cattaatggc	tccggaaaat	540
agcacattag	tagcctcctt	tatcggatat	acccctgttg	aaattccgct	aaaagggaaa	600
aagatagtgt	ttttcaaatt	ggtacctgac	gccagagtc	tggaagaagt	agtggtagta	660
ggattcggaa	cacagaaaaa	agccagtgtt	gtaggtgctg	tacaatccat	caaaccggct	720
gaacttcgag	taccttccag	taacctgagt	acatcatttg	ccggacgtat	agcaggcggt	780
atttctatgc	aacgcaccgg	tgagccgggt	gccgatggag	caaacttctg	gatacgcggt	840
gccgcaacct	tcagcggaac	gactgatcct	ctgatcttca	tcgatgggtg	cgaagtttcg	900
gcaggagata	tgaacgctat	tccctcggaa	gctatcgaaa	acttctcaat	attgaaagat	960
gcctcggcta	cagccctcta	cggagcacgc	ggtgccaatg	gtgtcatcct	gatcactacc	1020
cgaaccggta	aagatcttga	aaaagcacgc	atcaacgtac	gcacgataa	tacatttacc	1080
gcaccgacac	gtacactcaa	actggcagat	gcagtaacag	ccatgaaatt	gagaaatgaa	1140
gccattctga	cccgtaaccc	ggatggtaca	ccggctttct	cagatgataa	aattcaagga	1200
acgcttgaag	gcagaaatca	gtatgtatat	cccaacgttg	attgggttca	ctatatgttt	1260
aaagactact	ccatgaacca	atcagccaac	ctgaatgtaa	tgggtggtac	aaagaaagta	1320

gactattttca	tcagcgcctc	catcaataat	gataatggta	tgctgaaaaa	agatccgaat	1380
aacacattcg	acaacaatat	acagaatctt	cgctactcgt	tccaaagtaa	cgtgggagca	1440
tggttgacat	caagtaccaa	agtaaatgtg	agaatcaact	cgcaaatagt	caattacaat	1500
gggccgtcaa	ccagtatgga	cgatttgtat	aaatacgtaa	tggaagctcc	gtcaatgtat	1560
tttgcacctg	tatatccgaa	tatcaaccgt	gaagatcaca	ctatatccgg	aaacaaatca	1620
gggtggtccta	tcggttcgcn	aggattcagt	atttatcgca	acccttaa		1668

<210> 51  
 <211> 411  
 <212> DNA  
 <213> B.fragilis

<400> 51						
atattaagaa	aagaagttta	tattttatat	ttttgcagcg	cacatatggg	aaccattact	60
ctatatatga	acaacaacat	agaatatatc	agcaagataa	agaaaggaga	agagacttct	120
ttccgtcatt	ttgttaatag	ctattcgaaa	gacttgttct	actatgcaca	gtgtttcgta	180
cgaagcaaag	aaaccgctga	agaagtagtc	agcgacgtct	ttctggatgt	atggagacac	240
cgcaagaaa	tagatgaaat	caagaatata	aaagcttggg	tgctcacatt	aactcataac	300
aaagccatct	tctatctgag	aaaagcggaa	aattcaagtg	aaattgcttc	atgggaagaa	360
atagatgatt	ttcaaataat	cggaaatctg	caactcccca	tgaagagatg	a	411

<210> 52  
 <211> 1851  
 <212> DNA  
 <213> B.fragilis

<220>  
 <221> unsure  
 <222> (920)  
 <223> Identity of nucleotide sequences at the above locations are unknown.

<400> 52						
ataattatga	aactaaaaaa	tataattgta	gctttactaa	tcggagctag	cttacactct	60
tgtgattatc	tggaacattg	acccgatgac	acccctatct	tggtgatgac	gttcaagaac	120
gaacagactg	ccgagaactt	tgtcttcgcc	tgctattctt	tcattcccaa	ttatctgaac	180
ttccgtcaga	acttcagttg	gtgcacaact	ccggaaaactg	tcggatctgc	ccactggacc	240
actacttggg	tcacctttat	gagaatgcaa	caaggattgt	acaattctgc	tgatccaatc	300
attgatgtgt	ggcaaagttc	atacaacggt	atccgccaat	gttatacgtt	cttggataat	360
attgatgatg	taaagccatc	acaaatctca	gaggcagacc	tcgcagccaa	gaaagtactt	420
tggaaggggtg	aagtaaaatt	tctgattgcc	tactaccact	acctgctatt	acagaactac	480
ggtcctatag	tcatactgga	cgaagcaatc	cctcttaattg	cacccaaaga	agaacttttc	540
aagccgcgtg	taccctatga	tgaatgcgtt	agccgaattg	ctcaaattgt	cgataatgcc	600
tctgccgacc	tgcctatgac	agtgaagctt	tccaactacg	gtcgtgctac	aaaagtcatt	660
gcacaagcac	taaaggcaag	aatgtacttg	tacgcagcca	gcccacagtt	caatgggaat	720
gctgatatgt	ataagaattt	caagaacaag	gacggacagt	tgctcatgaa	cctgacttat	780
gacaagaata	aatggaaaac	tgccatggac	gaatgtaaaa	aggcaatcga	catggcacat	840
caagccggag	cagaattgta	taagtataca	aagaaaggta	atctgccgga	attcaaccaa	900
gccattgccca	atgcacgtan	acctgttgta	gacgcattgga	ataaagaact	gatctgggga	960
tatagtggct	ggaaagaaac	atgggccgat	ggaaactcta	ttcaaacaca	cgtaattccc	1020
aaaggtatca	gtacttcttc	gggagcacct	tatggagctt	taggtgcaac	ggctttcagt	1080
gcgacatgt	atctgaccaa	gaacggactt	ccgatagatg	aagatccaga	gtttgattat	1140
gcacatcggt	tcacagtagc	cgaaggggat	tcggtagcag	tgctccatcg	caaccgtgaa	1200
ccacgtttct	atggttctat	cggcttcaac	cgcggggact	acctgatcaa	cggagacacc	1260
attaacctca	aatgcgctt	caaagagcaa	aatggaacac	gtgatgcggg	aagtgaccaa	1320
ttatatggat	cgtatgctat	cgccaaactg	gctcatccag	aaacttttgt	tagtggtacc	1380
agcaactctc	tggtagcttt	ccctttccct	atcatccgct	taggagaatt	gtatttggac	1440
tatgcagagg	cttactttga	atacaatgga	acactggaag	gagatgcact	tacttacttc	1500
aacctgatcc	gccagagagc	cggatttccct	aatgtagaag	tttctacaa	aggactccg	1560
tccggagaca	aacttcgtga	ggtaattcat	cgtgaaagaa	ccatagagct	gatgttcgaa	1620



ggacatatgt	catacgacta	tcgccgttgg	ctgattgccc	tgaaagaatg	gagcgggtatg	1680
gaaaatggta	tgatcggatt	gaactcttac	ggtacaacca	acgaagagta	ttataaaaaat	1740
gcacgtttgg	atgctcaacc	attcatcttc	agggatgaac	agtatttgag	tccaatcaaa	1800
caggattacc	tgaatgtaaa	ttcaaatctg	gtccagaatc	cgggttggtgta	a	1851

&lt;210&gt; 53

&lt;211&gt; 339

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 53

acgataaaga	aagaaaaaagg	ttgcaggaat	ccttcattta	ttatctattt	atacggatcg	60
gtcgttgga	gtaatactgt	acggtacttg	ctccgccttc	ccttggttga	cggaggaaaa	120
acagacctcc	tccccaaaaa	agttaaagac	agagccctaa	agtcattcaa	cacatttcag	180
caagccccta	tcaaacataa	aaaaatgtcg	caaaagcaac	aactttcacg	acacttcaat	240
atctgtcaga	atacacatgc	ctcagaacat	cttactgacc	cgttcgatac	cagctacaag	300
agcatcaact	tctctctttg	tattatacac	ggcaaatga			339

&lt;210&gt; 54

&lt;211&gt; 1134

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 54

aagcagcacg	aaagtaatat	tgagaatcgg	atgcggtggt	tgacgattct	tctgggcaac	60
tgttttcttc	tgcttggtgc	attagcctct	tgcgggaaaag	tgtcattagc	ggaagaagca	120
gtgttttcta	taccggtgga	tacgacattt	atgaggcttc	gtcaatggga	gtggtattgt	180
cagaaacggg	ctgacagttg	tctgacagag	aataattatc	agggagcttt	atcttggtcg	240
gattccgctc	gtatccaagt	ggaacattac	ggacgtcctt	attatatatt	ggcacgcggg	300
gacgtatatt	attccatcca	tcaatatgat	tctgcccgtc	gttatttttag	tatggcagtc	360
cattccattc	atccacatat	tgctatcgaa	gcttgaggga	aacttgcaga	actggaactt	420
atggaaggaa	atgagaagca	agggttctat	tctacgcaga	aggcagatgc	acttttccgg	480
gtggagatag	gccatgtgca	gagtgataac	agtgaagctc	tatatcagga	agagaggttg	540
aaaaacgagt	taaaccaatt	gaagattgcc	aaacagaata	gggaaattgc	catgttaact	600
ttgagccttt	gtctgattat	actgattgct	ttgtttattt	tctaccggca	aaataagata	660
aagcgtgaaa	aagagcgtct	gcttcttgaa	gagaaagcca	agttggagca	agagaaccaa	720
atactgaaac	aaactgaaga	gttaagtgtc	ttgagagaaa	aagaggcggg	tttgcgagag	780
tctttgttcc	gtaagggtcg	tgttttgctg	aaaataccct	ccctcaatga	agaagaacag	840
gagagtgggtg	aacatcgcat	agctttgtcg	gaaagggagt	gggaggaaat	tcgtcagaca	900
gtggataatg	cttatgatgg	gttttcacaa	cggttgcttg	cacgctttcc	tttgttgacc	960
ttaaaagata	tttatttctg	ttgtctgggt	aagatcaatg	tcagtataaa	ggacctttcc	1020
gatatttatt	gtattagtcg	tacctcggtt	agtaaaaaga	aatttcgcat	caagcgagag	1080
aagcttggag	cagaggattc	ggactcttta	gatgactttt	tacgtggttt	ttag	1134

&lt;210&gt; 55

&lt;211&gt; 471

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (228)

&lt;223&gt; Identity of nucleotide sequences at the above locations are unknown.

&lt;400&gt; 55

tcaatgatag	aaaaaagaac	tgtttgtcag	attgttgaag	aatggctgga	ggataaagac	60
tattttctgg	tagaagtgc	cgtcagccct	gatgacaaga	ttgtggtcga	aattgaccat	120
gcagaagggtg	tttggtattga	agactgtgtg	gagttgagtc	gcttcattga	gtcgaaactg	180
aaccgtgaag	aggaagatta	tgagctggaa	gtacgttctg	ccggaatncg	acagccattt	240

aaagtattgc	aacagtacta	taaccacatc	ggcctggagg	tggaagtgct	gactaaaggg	300
ggacgcaaac	tgagcggggg	cttgaaagat	gctgatgaag	aaaagtttgt	tgtgaccgta	360
caaaagaaag	taaaacccga	aggagccaaa	cgtcctcaat	tggtagaaga	ggatgaaacc	420
ttcacctatg	atgatataaa	atatactaaa	tacttaatta	gttttaataa	a	471

<210> 56  
 <211> 1566  
 <212> DNA  
 <213> B.fragilis

<400> 56	
ccaaacaaag	aaggagcagt ccttggtata ttatcttatg gaaagctttg cgggggatctt 60
ctttcctgca	gcaaaagagg ttacacaaca atatatattc aaataaaaaat gatgcaacaa 120
gaagaaccca	ataaatatgt aaaagaactc acgcaggaga agtataaata cggcttcact 180
acggaggtac	atacagatat catagagaag ggactcaatg aagacgtggt acgtttgatc 240
tcgtctaaaa	agaacgagcc ggagtgggtg ctggagtcc gtctgaaagc ttatcgtcat 300
tggttaacgc	tgagatgcc tacttgggca catctgcgta taccggaaat tgactatcag 360
gcaatctcat	attatgccga tcctacgaaa aagaaggagg gcccgaaagag tatggatgaa 420
gttgatccgg	aattgataaa aacattcaat aaactcggca tccactgga ggagcagatg 480
gcattgagt	gtatggctgt ggatgcagt atggactctg tgcagtga aacgacctt 540
aaggaaacac	tgatggagaa aggtattatt ttttgcctcat tcagtgaagc tgtgcgtgaa 600
catcccga	tggtgaaaaa gtatctcgga tctgtgtgtg ggtatagaga caacttcttc 660
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 <211> 246  
 <212> DNA  
 <213> B.fragilis

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tccgatagtc	agttgattag ccaaacaaag aaggagcagt ccttggtata ttatcttatg 180
gaaagctttg	cggggatctt ctttcctgca gcaaaagagg ttacacaaca atatatattc 240
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<210> 58  
 <211> 1341  
 <212> DNA  
 <213> B.fragilis

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atcccttttt	gttttttctc	tgcccgatgg	ttaattttgc	aatatcaaaa	ctttaaaaat	180
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&lt;210&gt; 59

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 59

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tatcattatc	tggatcgctg	tggccgctaa				270

&lt;210&gt; 60

&lt;211&gt; 1371

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 60

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tattatggta	agttggctga	tacttcgaaa	gatgcggtta	eggcttttaa	tacagctttt	480
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 <212> DNA  
 <213> B.fragilis

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 <211> 879  
 <212> DNA  
 <213> B.fragilis

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cgtctggcca	cagcagcgtt tgctgatgta tgtacgccg gcaatccacg ggaagtaaca 840
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<210> 63  
 <211> 648  
 <212> DNA  
 <213> B.fragilis

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&lt;210&gt; 64

&lt;211&gt; 1167

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 64

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&lt;210&gt; 65

&lt;211&gt; 1467

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 65

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<210> 66  
 <211> 3051  
 <212> DNA  
 <213> B.fragilis

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<210> 67  
 <211> 1251  
 <212> DNA  
 <213> B.fragilis

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 <212> DNA  
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	cttaaatgaa
	tagcatgtac
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	aaattgcgca
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&lt;210&gt; 70

&lt;211&gt; 2085

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 70

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&lt;210&gt; 71

&lt;211&gt; 783

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 71

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&lt;210&gt; 72

&lt;211&gt; 792

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 72

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&lt;210&gt; 73

&lt;211&gt; 231

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 73

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&lt;210&gt; 74

&lt;211&gt; 708

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 74

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&lt;210&gt; 75

&lt;211&gt; 267

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 75

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&lt;210&gt; 76

&lt;211&gt; 4107

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 76

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&lt;210&gt; 77

&lt;211&gt; 210

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 77

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60

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<210> 78  
 <211> 1149  
 <212> DNA  
 <213> B.fragilis

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 <211> 1257  
 <212> DNA  
 <213> B.fragilis

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 <212> DNA  
 <213> B.fragilis

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 attagttata atttatatca aaaccggtca caaccggtag ctttcatttt ctacgaagag 180  
 taaaagacc agcgtgccat ggatatacat gcggcatccc cccatttcca ggcttttggg 240  
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<210> 81  
 <211> 3183  
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<220>  
 <221> unsure  
 <222> (2747)  
 <223> Identity of nucleotide sequences at the above locations are unknown.

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 <211> 1149  
 <212> DNA  
 <213> B.fragilis

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 <212> DNA  
 <213> B.fragilis

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&lt;210&gt; 84

&lt;211&gt; 288

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 84

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&lt;210&gt; 85

&lt;211&gt; 1332

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 85

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&lt;210&gt; 86

&lt;211&gt; 198

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 86

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actgcagaaa caaagtag

198

&lt;210&gt; 87

&lt;211&gt; 207

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 87

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caaagaatga	aagataatag	atcttga				207

&lt;210&gt; 88

&lt;211&gt; 240

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 88

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&lt;210&gt; 89

&lt;211&gt; 489

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 89

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atagaataa						489

&lt;210&gt; 90

&lt;211&gt; 630

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 90

cgagaccgac	ctttcaacaa	tacgaaccat	cataactcca	ataaaataat	ggcagcaaca	60
aagatattca	acctttgggc	gaagcgcagc	cctgagtggg	aaacgaaata	cgaagacacc	120
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gaagaagagg	aagcagaatc	tttgattaa				630

&lt;210&gt; 91



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 <212> DNA  
 <213> B.fragilis

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 gctgacagta aggcgatgct ggtattggta gactcgccgg tgaaagtgga attctatgtg 240  
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<210> 92  
 <211> 1923  
 <212> DNA  
 <213> B.fragilis

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 tga 1923

<210> 93  
 <211> 1740

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 93

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&lt;210&gt; 94

&lt;211&gt; 1203

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 94

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<213> B.fragilis

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<210> 97  
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&lt;210&gt; 98

&lt;211&gt; 636

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 98

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&lt;210&gt; 99

&lt;211&gt; 1923

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 99

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&lt;211&gt; 306

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 100

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&lt;210&gt; 101

&lt;211&gt; 2118

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 101

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2118

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&lt;211&gt; 2898

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 104

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&lt;211&gt; 3255

&lt;212&gt; DNA

&lt;213&gt; B. fragilis

&lt;400&gt; 105

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 <213> B.fragilis

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<210> 107  
 <211> 432  
 <212> DNA  
 <213> B.fragilis

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gagtcaactg	gtcgcgcac caggtttgcgt tacatcttgc ataagtctaa gatacaaaaca 240
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gccgtcatac	ggtatataaa cacagtcggc actataacta atgcggaggc tcgcgaaata 360
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&lt;210&gt; 109

&lt;211&gt; 330

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 109

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&lt;210&gt; 110

&lt;211&gt; 195

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 110

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ttttcaatca	aataa					195

&lt;210&gt; 111

&lt;211&gt; 195

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 111

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tatttaattg	tttga					195

&lt;210&gt; 112

&lt;211&gt; 1596

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 112

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&lt;210&gt; 113

&lt;211&gt; 429

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 113

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atcgatatag						429

&lt;210&gt; 114

&lt;211&gt; 1233

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 114

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&lt;210&gt; 115

&lt;211&gt; 285

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 115

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&lt;210&gt; 116

&lt;211&gt; 588

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 116

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&lt;210&gt; 117

&lt;211&gt; 969

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 117

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ggctggtaa

969

&lt;210&gt; 118

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 118

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&lt;210&gt; 119

&lt;211&gt; 1131

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 119

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&lt;210&gt; 120

&lt;211&gt; 1569

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 120

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gacttcaatg	ctthtcggaaa	tgctgtttcg	ctggacgaaa	tttcattaat	gtcgcttacg	1440
atggttactg	ccgactatta	ccccgtagcg	ccaggaattc	aaaagataag	agthccccaa	1500
aaccttgctg	aaacatacaa	gcagaacaaa	gcctggaagc	cattcgctga	aaaaatcgth	1560
gccctttga						1569

&lt;210&gt; 121

&lt;211&gt; 978

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 121

attatgaaga	aagaagattt	aagaattgta	tatatgggga	ctccggactt	tgccgtggaa	60
gccctgcaat	gtctggttga	aggcggttat	aatgtggttg	gagtgtttac	gatgcccgat	120
aaacctgccc	gtcgcgga	taaaattcag	tattctccgg	taaagcaata	tgactggat	180
catcaactgc	ctthgtgca	accggaaaaa	ctgaaagatg	aagaattcat	tcaggcgtha	240
cgtgagtga	aagccgatct	acagattgtt	gtagcttttc	gtatgttgcc	ggaagtggta	300
tggaaatg	cacgtctggg	aactthtaat	ctccatgctt	ctctgcttcc	gcaataccgt	360
ggagcagcgc	ctataaaactg	ggcagtgtat	aacggagaca	ccgaaacagg	tattactact	420
thtttctga	aacatgaaat	agatacgggg	gaagtaatcc	agcaagtacg	tattcccatt	480
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aagatgaagg	ctgtgtaa					978

&lt;210&gt; 122

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 122

agattttattg	aacggatgga	agaaacagcc	agaaaaataa	aagaaaatac	thcttgctgg	60
tatgctgtat	atacagcacc	gagagcagag	aagaaagtga	aggaacagct	ggataagata	120
ggcgttgaaa	actatttgcc	tcttcaaccg	gtagthctgt	tgtggaacaa	tcgcaagaaa	180
aagattthtca	thctgttgt	thccgggatgt	ctattthgtgc	acatctcttc	tgaggagatt	240
gctcatgtag	ccggtattca	tgagtagct	thththactga	aggaaaaggg	acaatatgtt	300
tctataccgg	aagthtcaat	ggagacttht	aagactatga	tagagcactc	thgcaactg	360
gtcgagthtg	cgccaaatga	gthtgthctt	ggaaccatag	tgcgagtaat	aagtggacag	420
thacaaggat	tggaggctga	gctagthgat	tgccaaggaa	ataataagth	gthactgcga	480
gthgaagggt	tgggatgtgc	thtggttaca	gtctcaacgg	attgtgtagc	thcaaaagag	540
gaataa						546

&lt;210&gt; 123

&lt;211&gt; 1026

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 123

aaagaaattg	aatgagtga	agtaagacac	gtgtaggta	tatctggtg	aaaagacagt	60
gctgctcttg	ccatctacct	aaaagataaa	tacccaatc	ttcatattga	gtattatagc	120
agcgacacca	aatgtgagtt	ggatgaaacc	attcagttca	ttgaccggtt	gcgctcttac	180
ttaggacaca	taacgacctt	aattgcggca	gaaggaaagt	ctgaacctac	tctttttgac	240
cactttctga	aggtaagcgg	tggtatctg	ccatcggtac	aagcaagatg	gtgtacgcag	300
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ggatcccgcg	gcgatgaaga	ccgtgaaggc	tatgtatcga	caaagccaaa	tatacaagcc	420
atattcccg	tccgcaagaa	tatctggagt	atggatgta	ttcacgaggt	gctgcatgat	480
aagaacattg	agaattttgc	agaatgctat	cgcaacgttg	cagacgatga	gacctatcaa	540
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caatacacag	attacctgt	gggaaagttg	gactatttcc	cattgattga	caatgatgag	720
gttttggtga	gagaagaaat	ctttcgcac	cttgaagata	gcggcgtagg	cataccagca	780
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tctggatggt	atttctgctt	cttcacgag	aagatagaat	ggatttggct	ctacgagcag	900
catcccgacc	ttttcaaaaa	ggcaatggag	tacgaaaaag	acggatatac	gtggattcaa	960
ggcgagcctt	tgagcgaact	gatacgatcc	ggagtcgtgt	gcggcaaatc	aagcttgacc	1020
agataa						1026

&lt;210&gt; 124

&lt;211&gt; 1182

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 124

atgggcaatg	aaaagaaaaa	agttgtaaaa	atagttccta	cctattttga	gcatgaaact	60
cgggacctaa	aagagatttc	agttttaaat	agtttaggat	gtaatgttat	tgtagtggcc	120
aaaggagata	atgctgtaat	aattgaagag	tcttggtata	ttctgcatag	attatgttct	180
aggcctttga	tgccttttgt	ctcaaactcg	ttctgaata	gacttttttc	tctttatata	240
tgggttcgat	acgtcaggaa	gttgcattga	gaattgctga	gttgccatga	tttattttgt	300
ttgtgcattg	gttggttatt	tacccttgg	ttgcgtaaaa	agcctttcct	ggcttatgat	360
tctcatgaat	ttgagtatgg	acgaaactgt	aaacgaaatt	ttgtttcaaa	attgtttatt	420
aaaacttttag	aaaggttctt	gtgtaaaaaa	accgctctta	atattgttgt	aatgaatct	480
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gtccctttat	actggaatat	agatgttaat	aaatgtgtat	tgagacggaa	aaaaatatgt	600
gaagcatatg	gtattccaat	tgatagtttt	atcataatgt	atcatggggt	gattgcagct	660
gggcgcggca	ttgagaatgc	aatttatgct	gttgagaatg	ttgaaaatac	ttgtttgttg	720
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cgttttaaag	caaatatgca	agatgccaa	aaagaattat	gttgggaaaa	tgaaaaggag	1140
atttttagagg	gagcttatcg	ttcaatattg	atggatatat	ga		1182

&lt;210&gt; 125

&lt;211&gt; 1821

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 125

aggtggagt	atcaagatta	ttcgcgaatg	atggaaaaag	aaaagataag	tttattacag	60
cgctttatta	tctggcgcg	gaataaaaatc	aaagaaaagc	agtttattct	catttttaagt	120
tttctggtcg	gtatttttac	tgccattgct	gcactgctcc	taaaattctt	tattcatacg	180
atacagaatt	tcctgacaga	taactttaat	acgacggagg	ccaactacct	gtatctggtt	240

tatccgggtgg	tccggtatttt	tctggcagga	tggtttgtac	gcaatatcgt	aaaggatgat	300
atcagccatg	gagtcacgaa	gattctttat	gcaatttcga	ggaggcaggg	gcgtatcaaa	360
agacataata	tctggtcgtc	gaccattgcc	agtgccatta	ccatcggttt	cggcggatcg	420
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atcggaggta	tttttaaagc	gcctattgcc	ggactgggtg	ttacgcttga	agtactgatg	600
atcgacctta	ccatgtcgtc	tttattacca	ttgctgattt	cggctgtcac	ggctgccact	660
gtttcgtata	ttacgaccgg	acaggaggct	atgtttaaat	ttcatctgga	tcagcctttt	720
gagttggagc	gtattcctta	tgtgattcct	ttgggaatct	tttgccgatt	ggatcgcctt	780
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tatggtgaag	gttacgatac	gatcgaacta	ttggtgaacg	gcgtgagcaa	tgccgactgg	960
gatacggtag	tgaataactc	gttgttttat	ggatacggta	atctgttgct	ggtctatttg	1020
gtgctgatca	ttctgttgaa	agtctttgcg	tcgagtgcga	ccaacggtag	aggcggatgt	1080
ggcggatatt	ttgcaccttc	gctgtatctg	ggatgtattg	ccggttttgt	gttttcgcac	1140
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gagctaaccg	gcggatatga	cctcttcctg	cctctgatga	ttgtttcggg	cagttcgtat	1320
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ggcaaatacc	tgggatttgt	atccaaatct	aagatatatta	attcatatcg	ccaggtattg	1800
gtacatttct	cggaagattg	a				1821

&lt;210&gt; 126

&lt;211&gt; 252

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 126

aatcacgggtg	aaaagtcagg	aggaagtga	tgctattcct	gtgggtattc	ctctctctct	60
ttggatgctt	gtctgattaa	agccaatgac	tctgatccgg	tgtatctgag	tacgaacggg	120
gtgaaaagtc	atattaaatc	ggtagaagat	tttaataagg	tccggttttga	ttgggataaa	180
atcaagggtg	tgtctccggc	agaagtggat	gcaatcccta	ctgctccgga	atatgagatc	240
gccaatgtgg	ga					252

&lt;210&gt; 127

&lt;211&gt; 936

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 127

tataaaaaacg	aaattatcat	ggaaaagatt	attggattga	tcaatgcccc	ttttactccg	60
ttttatgaaa	atggagaggt	taattatgaa	ccaattgaag	cgtatgctaa	gatgttagta	120
aagaacggac	tgcaaggagt	atattattaat	ggatcttccg	gtgaaggata	tatgttgacc	180
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gtcgaagagc	tgggtgaagta	ttgtgaagaa	atcgcttgcg	gtgctcccga	tcttcccttc	420
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cgtactcctt	tccagaatat	gacggacgat	gaagaagtac	gtatgaaggc	tgaactggaa	900
gctattcatt	tcttcgatcg	ttgcaataag	ttttaa			936

&lt;210&gt; 128

&lt;211&gt; 1113

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 128

tataagatgg	aagaatataa	aagatgtacg	cgttgtgtaa	tggataataa	gtcagatgaa	60
actataacat	ttgataagca	tggacgatgt	aattattgca	cagatgcatt	aaatctgatt	120
ggaaagggtct	acttttctaa	tgcggaaggc	gaacagaagt	tgcgtcaa	gattgaaatg	180
cttaaatatg	aaggaaaggg	aaaacaatat	gactgcttaa	tgggaatatc	cggagggtta	240
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catgtggacg	atggctatga	tacagagtta	gcaacatcta	atataaaaaa	cttatgtgaa	360
gcctgtggta	ttgaactgat	ggtagaagct	cctgattcgg	agcaatttaa	tgctatgaca	420
aaggctttta	taaaagctga	ggttcctaac	attgcaatac	ctcaagataa	tattttgttt	480
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gaacttataa	atagaccagg	gaaacaacat	tcagattata	gaatggacaa	atttctacct	1080
tttttacata	aaataaaaaa	attttttgat	taa			1113

&lt;210&gt; 129

&lt;211&gt; 1473

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 129

gaaagatttt	ggaagggtttg	taagattcat	tggaatttat	ttgctgttaa	tatacttagg	60
tcttattttt	ataaaaatat	tatgacggca	atttttatag	tcgttttttc	agttatttat	120
ttattgggtgc	tataataactt	ttatatagcg	atttggtggac	gaattagggt	ttttactatt	180
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ttaatgtttg	ggtttatatt	acaaacatta	gatattttat	ttgttaggta	tcttttagtg	1260
aataagagtg	ttttagtttc	aagtttatat	atatatatga	tttattattt	ctcacagttt	1320
acagaaacag	gaataagtg	aataataata	gatacagatc	tttatatagt	cttattttatt	1380

<400> 133							
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atgcaggtag	atattgtgga	acttcagtcg	gcaaccaatt	ttggcggttt	aatggctggt		180
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ctttatatcc	cggcgggtct	ttctcttatt	gccgattatc	atactgaaaa	gtcacgttct		420
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attcggggcca	tgcatacaga	taaatacaaaa	aagattccgt	tgtttaaagg	agtgactctt	660
ttattcggta	atattgcttt	ttggattatt	ctgttctatt	ttgcagctcc	cagtcttccc	720
ggatgggcta	cgaagaattg	gttgccctacc	ctgtacgctg	agaatctcga	tatccctatg	780
gctgaggcag	ggcctatata	cactataacg	attgctgtct	cttcttttat	cggagttatt	840
ctgggagggg	tattgtcaga	ccgttgggta	tgcaaagaca	tacgcggacg	tatctataca	900
ggcgcaatcg	ggttaggggt	gaccataacct	gcgcttcttt	tattgggctt	aggcaatggt	960
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aataatatgc	ctattttgtg	ccagtttgtt	tcggccaaat	atcgggcaac	ggcctatggt	1080
ataatgaata	tgaccggagt	ttttgccgga	gcagttgtaa	caagcttggt	tggaaaatgg	1140
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&lt;210&gt; 134

&lt;211&gt; 684

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 134

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gccttttgca	atttcgatgc	tgagtcgggtg	gcacaaatga	ccgatgaaga	tgttgaacgg	360
ttgatgcact	ttgatggcat	tgtgaaaaat	cgtctgaaga	tcaaatacgac	catcacaaat	420
gcaaggteat	ttctgcgcgt	acaaaaggag	ttcggtagtt	tttatgacta	tactctatca	480
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ggaactacga	tttgctatgc	tcacttgcag	gcctccggat	ttatgaatga	tcactctggtg	660
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&lt;210&gt; 135

&lt;211&gt; 222

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 135

cacccatgcc	gcactggaat	gggtaggggg	attgtacccc	taaatacaag	cttaaatgaa	60
aaagccgtgg	tcattaccga	cttcaccgat	gaaaacggta	tcgaccggat	gaaggagcag	120
atacaggaga	agtacaaccg	tatcaaagcc	gacgtgcgtc	agattgtcgc	cgacgaattg	180
caacgcaccc	agaacgatcc	tgcattggca	catctcattt	ag		222

&lt;210&gt; 136

&lt;211&gt; 630

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 136

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gcccttcgta	tcacctatag	ccgtgagctt	gcctttaagg	aatacctgga	ctcccgcgga	180
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gaaatgaaat	ccactgtcgg	ggcttctctt	cctattcgtt	atatcatgga	ccgtgagacc	360
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gtccgtgtca	ccggtggcat	cttcgagggg	gttgaggggtg	agtttgcctg	tatcaaaggt	540
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<210> 137
<211> 1236
<212> DNA
<213> B.fragilis
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&lt;400&gt; 137

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catgtgagca	agcgaaagcc	agattcgttt	gttcataata	aactatttat	tataatttca	1200
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<210> 138
<211> 2316
<212> DNA
<213> B.fragilis
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<400> 138

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atgcgcgatga	ttatcaacga	tattttatct	accgaggata	agcgtgcgat	aattgtagca	300
gactcgtgcg	acgatgtgga	ttacttcaac	ctgcaagatt	tgggtggat	gagcgacacg	360
ttgtctaagc	gcaaccagca	tttcttcgag	tgccttgctt	ggctgattcg	tcataaccgc	420
attgagataa	aagtggttgt	accaaagct	ggagagggca	tagcccatc	caagtgcggc	480
gtgtttcttcg	atggactgaa	ccgtgtggca	ttcgatggct	catgcaactt	ctcgaagacg	540
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gtgtgtgcga	ttaaagatgt	tgtggcagat	ttcgaacgca	ctttctctgg	taacgcagag	660
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&lt;210&gt; 139

&lt;211&gt; 279

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 139

ataaaaaagc	gattcttatt	ttgtgaaata	ttctgtttgc	tcaactccag	tattgtacta	60
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caaagattga	aagactcaga	acaattctta	tcaaaatag			279

&lt;210&gt; 140

&lt;211&gt; 597

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 140

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gttttaggaa	ataatgtcaa	ggtacagaat	aatgtatcgg	tttatacagg	tgttacttgt	240
gaagatgatg	tttttctcgg	tccttcttgt	gtctttacca	atgtgataaa	tcctcgtagt	300
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gcagttgtta	ctaaaactgt	tcctccttat	gctctcttgg	tggtgtaatcc	tgcccgtcag	480
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&lt;210&gt; 141

&lt;211&gt; 225

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 141

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aacaagacta	caacgctttt	caaaaacggt	gagctgtcaa	tctttctttt	aattcggatc	120
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tttcccaaca	taattctttc	ttggcatctt	gcataatttg	tttaa		225

&lt;210&gt; 142

&lt;211&gt; 534

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 142

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&lt;210&gt; 143

&lt;211&gt; 183

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 143

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cccagcacat	tcacctgtat	ggcttcagat	acattatctt	ccatcatggg	cacatgttta	180
tag						183

&lt;210&gt; 144

&lt;211&gt; 1341

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 144

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&lt;210&gt; 145

&lt;211&gt; 1113

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 145

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gagatacttt	tgcaattata	tgatagttaa	tga			1113

&lt;210&gt; 146

&lt;211&gt; 543

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 146

tgtgacttta	tgaatgatgg	tgagcggaaa	gaaactgttt	tatctttttt	ttataggaaa	60
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aaacctattc	gcaagtgggt	ctcagtagtg	gtaataacca	tcattccttt	ttctaattta	180
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tga						543

&lt;210&gt; 147

&lt;211&gt; 1200

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 147

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accgaactat	ctactgaaca	acaggattta	gtcatcaata	gtataaaaga	ttttttttta	1200

&lt;210&gt; 148

&lt;211&gt; 1122

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 148

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gaaattgac	tgatagagtt	ggctcagaaa	gtttgggccc	gtcgtaaact	agtattaaag	120
gtttgtgggtg	ttgccgtgtt	agtaggactt	gtagtggctt	ttagtattcc	taaagagtat	180
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&lt;210&gt; 149

&lt;211&gt; 681

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 149

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&lt;210&gt; 150

&lt;211&gt; 1047

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 150

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&lt;210&gt; 151

&lt;211&gt; 891

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 151

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&lt;210&gt; 152

&lt;211&gt; 1233

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 152

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 <212> DNA  
 <213> B.fragilis

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<210> 154  
 <211> 810  
 <212> DNA  
 <213> B.fragilis

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 <211> 2175  
 <212> DNA  
 <213> B.fragilis

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&lt;210&gt; 156

&lt;211&gt; 471

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 156

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&lt;210&gt; 157

&lt;211&gt; 216

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 157

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ttcaaaaagc	tcaatattta	tttagtttgt	aactaa			216

&lt;210&gt; 158

&lt;211&gt; 525

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 158

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&lt;210&gt; 159

&lt;211&gt; 975

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 159

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&lt;210&gt; 160

&lt;211&gt; 252

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 160

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&lt;210&gt; 161

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 <212> DNA  
 <213> B.fragilis

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 cttccggaac tgtggaatgt gctgatagga gatatgagtt tggtcgggtcc tcgtcctgat 360  
 gttccgggat atgctgacaa tttgctggga gacgatagga gaatgttgct tttaaaacca 420  
 ggtattactg gacctgccag tttgaaatat cgtaatgaag aagaattgct ggcagggcag 480  
 gataatcctc aaaaatataa tgatgaggtt ttgttcctcg ataaagtgcg aataaatata 540  
 gagtatttgg ataactggtc attttggaaat gatattaaaa tcatcgttta taccgttttt 600  
 gggaaagata tgtag 615

<210> 162  
 <211> 927  
 <212> DNA  
 <213> B.fragilis

<400> 162  
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 agggcgaaaag ggaaatccga cgaggccaga cggctgaatc aggagcttga caatgtcaag 180  
 gccagatca caaggcatta ccagtatgtc tgcgaccatg acagcctggt gacagctaaa 240  
 agtgtctaca accgctatct tggtttcggg gacgattatc acacccttat gggactgttc 300  
 agggagcagc ttgcctccta caaggaaaag ataggcaagg aaaaggcggc aagcacctat 360  
 cgcgggctgg tggcgcacta caagaatctg cagcttttcc tcaaagagaa gaggcgcac 420  
 gaggatatag ccacgcgcga gcttgacaag aagttcatcg aggactatta caactggatg 480  
 ctcgggacat gcgccctggc gagttcaacg gctttcggcc ggggcaacac cctgaaatgg 540  
 ctgatgtata ccgccagga aagaggctgg ataaggcttc atccgttcat cggtttcgac 600  
 tgctgtccg aatacaagtg gcgttctttc ctaccgagg aggacttgca aagcgtcatc 660  
 catgtcaagt tgaattacaa gcgccagcgg gctatccgtg acatgttcct gttcatgtgc 720  
 tttacaggtc tggcgtagc ggatctgaag gagatcacgt acaagaatat ccatacggat 780  
 tccgagggtg gtacatggct gataggcaac cgtataaaaa ccgacgtggc ctatgtggtg 840  
 aagctgcttc ctatcaccat cgaactggtc gagagggtaca gggggacaat gaaaagaaaa 900  
 gttcgctga caagggtgtt tccgtag 927

<210> 163  
 <211> 249  
 <212> DNA  
 <213> B.fragilis

<400> 163  
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 aaattaacta tctttgtaga tattacaaa attattaatc tatatgaaac aacatctttt 180  
 aaaaagaaata gaactaggt ccaaaagcgc tctttcctaaa aagaaaatta ttacacatta 240  
 tatatataa 249

<210> 164  
 <211> 573  
 <212> DNA  
 <213> B.fragilis

<400> 164  
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gtagaattcg	tacgtctctt	tgacgggaca	aacgtcaata	agatcatgac	cattgaagcc	180
agcggaatag	ctccggccat	aatgacggga	tatttaaatg	acttgccggt	cgtttttgcc	240
aaaaaaaaat	cgcccagaac	aattcagaat	gcgctaagta	ccacagtaca	ctctttcacc	300
aaagaccgtg	attatgaagt	agtcatcagt	tccgacttcc	tactccgaa	agataacgta	360
ttattcgtcg	atgatttttt	agcttatgga	aacgcgcgtt	taggtgtcat	tgatttgatc	420
aaacagtcgg	gtgcaaactc	ggttggaatg	ggattcatca	ttgaaaaagc	atttcaaat	480
gggcgtaaaa	cacttgaaga	aagaggagta	agagtagagt	ctcttgccat	catcgaagat	540
ttatccaatt	gccggattac	aataaaagat	ttaa			573

&lt;210&gt; 165

&lt;211&gt; 204

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 165

gacatttttt	ccaacagtct	ttccacacag	gcagttttcc	aaggcgagga	tgaagctgga	60
tttgccagtg	ccgtacgagc	cgatgaggca	aaacgaatga	atgccactgg	caaagtgatt	120
gataattttg	ccgatggctc	ggcgagcatt	ggcagtgacg	atatagtggg	gtatcttgcc	180
aaagtcacgc	tctatgttga	ttga				204

&lt;210&gt; 166

&lt;211&gt; 372

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 166

tattttgcat	cgttttat	ttttagggat	aagatatatt	ttattttott	tcttagaact	60
tatgaaggaa	taccaagag	ggcgattgaa	ccggaattca	gttcatttcg	gaatagttat	120
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ttgtgcgata	cctgtagaaa	agggaaatcta	ctgaagataa	aatcaaaaag	gcgggtttat	240
aagtcactct	gtgggggcat	gacccgcgat	ttgcttataa	aaccgttttt	cgttttataa	300
ggcttaagtt	tcaactcgat	ttgtgttaact	gaaccggg	gtacgggtacg	tcttcgacag	360
catatttcat	aa					372

&lt;210&gt; 167

&lt;211&gt; 1008

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 167

ataaataaat	caatcatggt	aaaaataatc	ttaggtgttc	tgtcactgct	tgtcatgttg	60
tcgtgcagca	ctgccgtgaa	agagaacact	acacaaccg	atataatgga	gacaaacaag	120
aaaaatctcg	gaaatctgtt	ggcactctat	cccaaacc	tgacggttgt	cggggcggag	180
gtcgaaggga	aagtaaaactg	gcttgtggta	ggacacacg	gagtcacg	ccatgaccg	240
atactggtca	gcatgagtaa	aagtcattat	accaatcaag	gtgttaaaaa	atcaaaacga	300
ctttccgtca	atcttgtgag	tcgtgagatg	ttaccgaaag	ctgactatgt	aggaagtgt	360
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gtaacgatc	tcgaaacct	tgcgagccgt	gaagcatag	agcagcatat	cgcttcggaa	900
cactttcaga	agtacaagca	gggaacgttg	catatggtca	aatcggttgt	attgtccgac	960
cagacaccgc	tcaatccggc	caacaaactc	aataacttca	tgcaatag		1008

<210> 168  
 <211> 1248  
 <212> DNA  
 <213> B.fragilis

<400> 168  
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 aactttccgg aattctcgtt ttacactttt caaaaaccgg aaattacgga ggctatgcct 180  
 acggcgga aa tagataaagg aattcgcctt cctcaatacc ttttcgtgga tggtaagttc 240  
 tacaccatat tctcgtcgtt gttcgggtat ggattttcaa tcattatcag caacgcggcc 300  
 aaaaagggaa cggacggatt cgtatctttt taccggcgga tgattgttct ggccgccatt 360  
 ggttttctgc atctgatgtt tatctggagt ggggacatct tgttggtgta tgctttattg 420  
 ggcattgttc tccctctttt ccggcatgtt tcggacagag tgttgctggg gacttccgct 480  
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 caaggtgcat ggggtgcgctt gcaggaattt atcgacggca atcgctattt taaggatttg 720  
 ggattgttct tattgggctt ctacatcgga cgaaagcaaa tatacgccga tcttgaggcc 780  
 aatcgggtac tactgaaaaa aacgggtgaca tacgggtttt tgctgggact tccctatcc 840  
 gttctctatg cctggagtgc ggtaaacggg catcctttcg gaacggctgc acacaccgcc 900  
 atctatacgg caagtgtcta tcttttaggt ttgcatagc tttccgctat ctgtcttctg 960  
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 ctgactaatt acgtgggaca gtcgggtatgg ggcattggtc tcttctacgg tatcggttc 1080  
 ggactggggg ccggcattgg attgacagga acagaatcca tagctttcta cgtctttctt 1140  
 gtccagatgg cattcagtgc cttatggctc tctattttcc gctttgggcc tctggaatgg 1200  
 ggctggcgga tgctgactta tgggaagtgg ttaaaaataa ggaaataa 1248

<210> 169  
 <211> 228  
 <212> DNA  
 <213> B.fragilis

<400> 169  
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 aacacttttg taggatatgc cgaccagcat cctttgggtc gctgataga ttacgatacc 120  
 gtcacgcca tcttgcatc gcacagccaa ttttcagtct atgcacttta taaagggatg 180  
 ggcttactc ttctctcgg acttggttga tggaaactcg ttgggtaa 228

<210> 170  
 <211> 237  
 <212> DNA  
 <213> B.fragilis

<400> 170  
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 ataaaggat gggcggtact cttctctcgg gacttggtgc atggaactcc gttgggta at 120  
 cacatcaaag acttctcttt cttttcttat cagtccaatg aagccggaga gcacatccgt 180  
 tgtcatatca tcgatatggc caaaagtaaa cttatcaacg gagaacaaat catgtag 237

<210> 171  
 <211> 627  
 <212> DNA  
 <213> B.fragilis

<400> 171  
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 gacgtgaaaa aatgtccggc aggcactttc cccgaatatg cctttatcgg ccgatccaat 120  
 gtaggaaaat ccagcctcat caatatgctg accggacgaa aggggctggc catgacttcc 180

gctactcccg	gtaagaccat	gcttatcaat	cattttctga	tcaacaacag	ctggtacctg	240
gttgacttac	ccggatacgg	atatgccaga	cgaggtcaga	aaggacagga	acagatacgc	300
accatcatcg	aagattacat	cctcgaacgc	gaacagatga	ccaatctatt	cgtattgata	360
gacagccgtc	tggaacccca	gaaaatagat	cttgaattca	tggaatggct	gggtgagaac	420
ggcatttcctt	ttgccattat	cttcacccaaa	gcagacaaaac	tgaagggggg	acgactcaaa	480
ataaatatca	gcgcttactt	gagagaatta	cggaaacaat	gggaagaact	ccctccctat	540
ttcatcactt	catcagaaga	gcgccttggc	aggacagagg	tattaaacta	catcaagtca	600
atcaataaag	aacttaattc	aaaataa				627

&lt;210&gt; 172

&lt;211&gt; 528

&lt;212&gt; DNA

&lt;213&gt; B. fragilis

&lt;400&gt; 172

aaaaataaaa	cgatgcaaaa	tatcattatt	acattttattg	ccttttttgt	actcagatta	60
ctttccttat	cctactccat	tcgtaacgag	aaacgtcttc	tgaaaagtgg	agcggtacaa	120
tatggtaaag	ttaattcgct	attactgaca	ttagcacata	tcgtctacta	tttttcggcc	180
ctctatgaag	catacacttc	gggaactacc	ttcaactact	tctctgtttg	tggtgttttt	240
ataatgggct	ttgcttatgc	tatgctattc	tatgtgatct	ataaactcca	tgatgtatgg	300
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gtaagacacc	ccaattacta	tctgaatata	atacctgaac	taattggaat	tgctttactc	420
tgcaatgcct	ggtatacatt	actcattgga	ctccctatct	acgcttgttt	gctcgtctata	480
cgtatccgac	aagaggaaaag	ggccatgaaa	gaactattgg	agaattaa		528

&lt;210&gt; 173

&lt;211&gt; 1488

&lt;212&gt; DNA

&lt;213&gt; B. fragilis

&lt;400&gt; 173

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acaggaaagg	gaaagacaga	ttacctgcta	tcgcttatcc	gcgaaggga	gcagatgaca	120
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cgcggcggtg	ggtttgcat	gtgcactcag	ctttgttcc	ggggggtaat	cttcctcgcg	1440
agactttggg	gcagtaactg	gatttataaa	ttacgaataa	atagataa		1488

&lt;210&gt; 174

&lt;211&gt; 1083



&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 174

aataatacgg	ctatgaagtt	acaagcaatc	gccatactga	cattcctgac	ttttgcgaat	60
gtcatggcac	aagaaacgac	aacaacaaaa	tatataaatt	caaccgatat	ggaagcattg	120
aaattgacgc	aggaatggga	taagaccttt	ccgcagagcg	ataagggtgga	acatacga	180
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ctcaacgtga	ttccggttca	caagatagat	gctttcttta	agaatgcctt	aaaggagaaa	1080
tag						1083

&lt;210&gt; 175

&lt;211&gt; 642

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 175

ttaaatagat	atacttgttt	gtacatgaat	caacaatata	catcgacggt	acttgaaaag	60
gccgtcggag	agttttctaa	attgcggggt	atcggaaggga	aaacagctat	gagactgggtg	120
cttcacctgt	tgcgctcagga	tacctctgtg	gtggaagctt	tccggaagttc	tattataact	180
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gtgatttcac	cgatggatgg	ggtaggaccg	ggcgatctgc	agatagaaaag	tctggtgcgc	420
cgggtagccg	aaggggggaat	aatgaagtgt	attcttgctc	taagcacaac	catggaaggg	480
gataccacga	atttttatat	ttaccgtaaa	cttgagaaaa	tgggtgtcaa	attgagcgta	540
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agaagtattg	tgaaccgtac	gacttttacc	ggtagcgttt	aa		642

&lt;210&gt; 176

&lt;211&gt; 1167

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 176

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aaaatcctgt	tactatgtaa	tcctcacaat	ccggtcgggc	gggtctggac	accggaagaa	540
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ggattcatcc	gtctgaacat	tgctgtcccc	cgcacattac	ttgccgatgg	tctggagcgg	1140
atggccccgtg	tattggaatg	ctgttaa				1167

&lt;210&gt; 177

&lt;211&gt; 615

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 177

aaacaaggat	atcaaatgaa	aagaaaacta	ttatcatttg	cagttcttat	cacactactg	60
cttgtaccga	ccgtaaacgg	tgcacaatct	atcaaggact	tattcaataa	agacaatata	120
tccaaagttg	tcaacgctgt	cacaggacat	accgaaacag	tggatatgac	cgggacctgg	180
cgttataccg	gctcagccat	tgagttcgag	tctgaaaacc	tgctgaagaa	agccggagga	240
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&lt;210&gt; 178

&lt;211&gt; 330

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 178

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gccatcatga	acatcgtatt	cgatccta	gacgatggaa	atctgttaat	aacactcggc	120
actctgacac	ctatactggg	tgaccttttg	atggtatatg	ccttcaaaga	caaatatcaa	180
attttaatta	gcaatcatcg	tttgcaaaa	aagtgttacc	tttgcgctcg	ttatgatgat	240
acttgccact	attgtatgct	actttgccat	tctcttgctg	atagcccgtg	tcaccggacg	300
gaaaggaggt	tcgaatgcag	cgtttttttaa				330

&lt;210&gt; 179

&lt;211&gt; 540

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 179

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gatttggatc	ttatgtacga	aatggaaaat	gaccttcta	tgtgggatata	cagtagtttc	120
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gctttcaact	ttttatttat	aaaacaattg	tatgcccata	tagctgtgga	taatgaacct	420
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&lt;210&gt; 180

&lt;211&gt; 450

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 180

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cgtgccgaac	tgcatattga	taaagaataa				450

&lt;210&gt; 181

&lt;211&gt; 213

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 181

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aggtacaagg	atgaagatac	cggttcagac	ggcgtaaact	cacttccgaa	acttaagtta	180
tcttattcag	cctgtgtcta	ttttttctta	ttaa			213

&lt;210&gt; 182

&lt;211&gt; 693

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 182

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cgcacgcact	gcccgatgg	cgggcaactg	agtacggatg	agtattacat	agccttggaa	120
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&lt;210&gt; 183

&lt;211&gt; 1221

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 183

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gagagatggt	tcgttaaagg	tgcttatcag	gtaaagctgg	cttctagtgc	atcgggtgtg	1200
cccgaagggc	atagtcatta	a				1221

&lt;210&gt; 184

&lt;211&gt; 372

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 184

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cgtcagacct	tgccgcgttt	ccagccggaa	gcgatgcgtg	cgaatacccg	cattgtaaat	120
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gaggaaaaacc	tgccgacact	cgacttcaac	atcagctccg	gggagtggaa	agagtttagag	300
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&lt;210&gt; 185

&lt;211&gt; 1140

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 185

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&lt;210&gt; 186

&lt;211&gt; 678

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 186

tctatcacgc	tgaccaagg	atgctggtcg	gcataatcta	caaaagtgtt	tcctgacagg	60
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aaccatactg	acaggttgtg	gggcagaact	tccaacaacg	gacaaacggc	tcaaacggcc	120
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cagatcaaga	ttcatcccta	catggaacat	caggaggtcg	tgggcaacac	ttttgccaaa	660
ggtattcaag	ttcagtgga					678

&lt;210&gt; 187

&lt;211&gt; 1029

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 187

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&lt;210&gt; 188

&lt;211&gt; 879

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 188

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&lt;210&gt; 192

&lt;211&gt; 1497

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 192

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gcccataaac	tcctcccact	ctactataaa	ctcaacctga	ccagtatata	cacttatctg	360
gatacccgta	tcggaaagcg	tgccctaccg	acaggagcct	cttttttcc	tcttttcgct	420
atgctgggca	cagctgcaaa	actatacctt	gtctgtctga	ttctatatac	ctacgtatatt	480
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atgacaacga	gcttttgcac	cgacttgctc	gacacaggca	aagacacaga	ggaagaagcc	1140
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cttgctcagtg	cattgaataa	ccaaagcgct	atcgatgcta	tttacaatcat	agcctcctat	1260
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gaccgatggg	tgccgtttat	tgcatagct	tcaccactga	tttgttacgc	agccgataga	1380
tttgcccggc	aggaaaccgg	ctatcagttc	ggatacgaat	tattgatgct	gaacggcatc	1440
cttacttttg	caggaatatg	gatcgtatca	aagaaacaac	taaaaaatga	atttttaa	1497

&lt;210&gt; 193

&lt;211&gt; 426

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 193

tatcccacca	ttggcagaca	acccagacca	atagccgata	cgtccagctc	tccgagcttg	60
cgatactcca	tcgtatcgcc	cgcatthggc	gtattthtat	cagataaatt	tcttgataaa	120
gaagagatag	gggggttcgg	aaacacacgg	gaaacacccg	ttgtagctcc	ggccgcgagt	180
agtgcanaac	ttgatgccgt	ccttaagaaa	tttctgcgat	ccataatctt	ctattthttc	240
attgttcatt	ttatgattgc	aaattttacc	cgattgaata	agtcggcttg	tatacgattt	300
acggatattt	ataccgcaat	cctcgaaata	gtgcatgagc	tcagattthc	ttcgatacaa	360
tatttcagtt	ttctthttta	gaagataatg	gggcttgctc	ctaatagaata	tcgggttaata	420
aattaa						426

<400> 194

<210> 195

 $\langle 211 \rangle$  600

<212> DNA

<213> B.fragilis

<400> 195

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tcgagaggaa	agattctgat	atcagagcct	ttcctccacg	atgtaacttt	cggaagggtca	120
gtagtattgc	ttgttgatca	tactgaagaa	ggaagtatgg	gattgattat	aaataaacca	180
ctccattga	tgtcfaatga	tatcattaaa	gaattttaat	atatagaaga	tattccgtta	240
cacaaaggag	gtcctatcgg	aactgacact	ttgtttttatc	tgcatacttt	acacgaaata	300
cccggaaccc	ttccgatcaa	caatggatta	tatctcaacg	gagattttcga	tgctatcaag	360
aaatacattt	tacaaggaaa	ccctataaaa	ggaaagatac	gctttttcct	cggatattcc	420
ggctgggaat	gcgaacaact	gattcaggaa	ataaaggaga	atacctggat	tatttcaaaa	480
gaagaaaata	cctattttaat	gaatgaagat	ataaaaggta	tgttggaagga	agccttaggg	540
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<210> 196

<211> 228

<212> DNA

<213> B.fragilis

 $\langle 220 \rangle$ 

<221> unsure

<222> (10), (11), (13), (14), (15)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 196

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tttttggggg	gcggactgat	tattgcgggg	attacgttat	taactgttat	cggacaaacc	180
tggcggacgg	cttcacagaa	tccggtgaga	tcattgagat	atgaataa		228

<210> 197

<211> 249

<212> DNA

<213> B.fragilis

&lt;400&gt; 197

aatccatgct	ttggtcgtga	tgaacagttc	ctcacgcgga	ataccacttt	tccgaatagc	60
cataccgacc	gcccgttcat	ttccatagac	cgaagcgggtg	tccatgagcc	gatagccgac	120
ggcaagcgca	tccgtaacaa	ctcttttcgca	ctcgggtggca	tccgggtatct	gaaagacacc	180
aaagccttgt	atcggcatct	ttactccgtt	attcaattct	ttgaaatcca	taccataata	240



tcgttataa

249

<210> 198  
 <211> 423  
 <212> DNA  
 <213> B.fragilis

<400> 198  
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 gtagtcagtg ctgatggcaa acctctgccc aacgaaattg tgcaaatgtt cgatgaaaag 180  
 acttatgaag agttcaaaaa agacaatcga acaactccta cggcatatgc attaactaac 240  
 tccaccggag ttgccacttt catttttact tatgataagt ggttcgaatc aaacaaagac 300  
 cgatttttca ctttcgctgt ccaatatggc agtggtacag aaaattatga aatatggtct 360  
 gcaggacgta ccgtacgccc gggttcagtt acacaaatcg agttgaaact taagccttta 420  
 taa 423

<210> 199  
 <211> 186  
 <212> DNA  
 <213> B.fragilis

<400> 199  
 acttcatcat cagatatttt atttttaaat ttataagaa gtacatgtgt gtttttcata 60  
 tcatgtgtaa ttgttatggg tgtaatgata gcaatattcg gtaataaaaa gcagaaaagc 120  
 aagaaaatcg atgtttattt tcttgctttt ttacatgggg acgattcttg tcacggtata 180  
 ccgtga 186

<210> 200  
 <211> 384  
 <212> DNA  
 <213> B.fragilis

<400> 200  
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 attacagcgt acatagtagc ccaaattcat aactttattt ggagtaaata ttggatcttt 180  
 ccgattgaaa ataaaaagaa caacatttgg aagcagatgt tgtttttctg ttctgctttc 240  
 ggattggcat atagtgcaca gttcttggtt ttagtacac ttgtagagtg tggagatgta 300  
 aacgagatc ttgcacaatt cctggggctg tttatctacg gaacagttaa cttcatcggt 360  
 aataagaagc ttacattcag ataa 384

<210> 201  
 <211> 3177  
 <212> DNA  
 <213> B.fragilis

<400> 201  
 aagtcaagcc cgtatcagtc aatcacgagt caccaacctc taatcgtaa ctgcatgttt 60  
 tcaaagttct ttatcaatcg acctatattc gccacggtag tggcattgat catcggtgtg 120  
 gccggattgg taacattaaa tatattgctt gtcgcacagt ttccggagat aactccgctt 180  
 acagtacagg tatctgcctt ctatccgggg gcaaattgtg agaccgtagc ccagactgtc 240  
 ggcattccca tagaacagca agtaaatggc gtacaggta tgctgtatat gagctctaca 300  
 gcgtccagct cgggtgccta ttcggttgacc attacttttg ctgtcggtac agacatagat 360  
 atggccactg tacaagttca aaaccgggta agcgtagcac aatcttcgtt accggaacct 420  
 gtcacgttcc agggagtaac ggtacagaag caatcgcca atattgtgat gtttctcacg 480  
 atgcaggcac aagactctgt atacgacggg ctttaccta cgaactacgc tcagttgaat 540  
 ctggttgacc aattgacacg tgtaccgggc gtaggggctg tcaatgtaat gggagcgggc 600  
 aattacagca tgcgcgtctg gctcgatccg gaagcaatgc gcatccgtaa cctctcgccg 660

gcacaaatct	atcaggctat	ccagtcacaa	aacatagagg	tcagtgccgg	ttatatcgga	720
cagcctattg	gcaaaaaacaa	caataatgcc	tatcagtata	ccttgaaatgt	acaagggtcgc	780
ctgacgtctc	ccgaagagtt	cggcaacatt	attatccgaa	ctgaagaagg	agggaaaaatg	840
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aaactaaagg	gacaccctac	tgttgccatc	gctatctatc	aacaaccggg	ttcgaactcg	960
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ttaagcggta	ttaattcgtt	gacactgacc	cggcattat	gcgactgtt	tctggagcat	1560
aacaagccat	ccaatttctt	catatacaag	ggattcaata	aggtatatga	taagacacag	1620
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gaacgcacac	aggtgtgtgg	tcggaaagtc	aatcagattc	tggacagtta	tcctgaagta	1860
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ggtacttatt	tcgttgtctt	gaaaaactgg	gaccaacgga	aaggaaaaga	gcatactgct	1980
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gctgttgttt	tcgggtatggc	cctgaacacg	ttactggcaa	cgatatatat	cccgaatttc	3120
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&lt;210&gt; 202

&lt;211&gt; 450

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 202

atgttatcgt	taaacctacc	agtattttgac	actaaaatcg	ccactcgaaa	tggaaaaaat	60
gttattttcg	atgtgattcg	ccgtcgttat	gtcgcattga	cccctgaaga	atgggtccgt	120
cagcactttg	tacactttct	tattgttcat	aaggggtatc	cgtcgtcttt	gatggcaaat	180
gaagtgcctg	tgaacctgaa	cgggactaaa	aaacgatgtg	acacagtgtc	atataaacgc	240
gatcttagtg	ccagaatgat	tgttgaatat	aaagctcccc	acattgagat	tacgcaggct	300
gtttttgatc	agatcacccg	ctataatatg	gttttgaaag	ttgattatct	ggttgtcagt	360
aatgggatgc	aacactattg	ttgcgggatg	gattatgata	ctcaaagtta	ttcgtttctg	420
tcggatattc	cggattatga	cgctttataa				450

&lt;210&gt; 203

<211> 426  
 <212> DNA  
 <213> B.fragilis

<400> 203

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tgccagcaac	acaaagaagc	tactatatct	cctatcgatg	aagaagatga	attgcaggaa	120
gaggccgata	gccttccccg	tgcgacagcc	atTTTTtggc	ttgataaata	tcatatgaaa	180
gagctgaaaa	aggacgatgt	gcttactttc	cgtacggcta	aggctaaagt	catcattcgg	240
aatgatggga	caatcgagct	tctgtcgttt	gtggaacaac	agcctgggaa	tgcaacaaga	300
tatatccgtt	accgactgaa	agatttcaag	gttaagaaaa	tcttgatgga	taacggctat	360
atcaatccgg	gtgaacaata	cgtccaactc	cgttatatac	ctgcacttgc	aaggcgcggt	420
aaatag						426

<210> 204  
 <211> 1062  
 <212> DNA  
 <213> B.fragilis

<400> 204

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atTTcgggtA	cacaaagtaa	ggaacttggt	ctgagtctac	tggaatgaaa	gatagataag	120
gaaatgtata	cttgggaaat	tgtgtatacc	gaaagggccg	gacatgcaat	cgaaatagca	180
gcagatgcgg	cagataaaaa	tacagatata	gtagttgctg	taggaggaga	cggaacaatt	240
aatgaaattg	cccgttcatt	ggtacacacc	aatacagcat	tggaattat	cccttgccggc	300
tctggaaacg	gattagcacg	acatcttcaa	atTTcaatgg	atccgcgtaa	agcacttgaa	360
atTTtgaatg	atgggataat	cgatatcata	gattacggaa	aaataaatgg	cacagacttt	420
TTTTgtactt	gccgagtagg	gtttgacgct	TTTTgaagtc	tgaaatttgc	taatgccggc	480
aaacgtggac	tgctgactta	tctagagaaa	accctgcagg	aaagtctaaa	gtatcaacct	540
gaaacttatg	aattggaaac	agaagacggt	acttccaaat	ataaagcctt	tctcattgct	600
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gatggtttgt	tagatgtaac	cattctcgaa	ccgtttacgg	tattagatgt	tccggcacta	720
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aaaaagttat	gtattcatcg	cagttcgccg	ggtgtgtgct	atTTtgacgg	cgatccgatg	840
caggctgacg	aagatatcaa	aatagaactg	attcagaaaag	gactgcgggt	cgttgtacct	900
ggtgataaaa	aaaaagataa	tcccaacgta	ttacaaaaag	cacaagaata	cgtaaacggg	960
attaaattga	taaacgaagc	tatagtagaa	gatatagcac	ataaaaaata	agttattctg	1020
aagaagaata	agcagctgat	acaaaaactt	actaaaaaat	ag		1062

<210> 205  
 <211> 951  
 <212> DNA  
 <213> B.fragilis

<400> 205

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gatacaactg	ctgatttttt	cagaaaaacc	aatcagagaa	tacttgctta	tcaattaaat	180
tccgaatcac	cattagttgc	agcattcaac	aaccattttg	gtacaccggt	gcaactaaaa	240
accattttatc	cgggtttta	aacaggtagc	ggacttccgc	atcagacagg	tagtaaagga	300
gaattttaa	taggatttca	atTTgattat	actaccggac	ttccctatat	tcccggtatca	360
tctatcaaag	gaactttgcg	cagtatgttt	cctttttcat	tgaaagataa	aggctctact	420
aaacgtattc	taccggaata	tagaaaagaa	cgtatggaat	atatccgaga	cttaataata	480
gaagtaacca	atataaatga	aatttcagac	acagaaattc	aggcattaga	atatgccata	540
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cctgatgtaa	caataaaactt	ttattttcaa	ttgtgtacta	ctcacttata	caaagaaaag	780
gtatgtagtt	caaaacaaat	agaagagatt	aaaaaacaaa	atgattttctc	ttcttcggac	840

tacaaaatga ttacggcaca ccagaagcga aacctatttg agaaaattct cctttgtatc 900  
ggaatcggag ctaaaaccaa tataggatac ggacaattaa agaaactcta a 951

<210> 206  
<211> 282  
<212> DNA  
<213> B.fragilis

<400> 206  
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aacattggga aatgatcaa taagcaggaa aagaagaaga gaggcagaac taattttattg 120  
gtaactatatt taataagctg tggaatagct taccaaaaat acacaaaggc gataatacta 180  
cggggctgtc caaaaagcaa agtgccccc aaaagtccga tagcccttt taccattggt 240  
tatttcgggtg aaaagcctca tattaccgtt gtgaaaaatt aa 282

<210> 207  
<211> 405  
<212> DNA  
<213> B.fragilis

<400> 207  
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gaggaactta gaaatttcta tatcacttat ttcaacggaa caagtaatga aaagtatatc 120  
aatcctaataa aaggatttga atcttatttc atcagttttg atcagggatt tgcttctctg 180  
gaaattatgc aaagagaaga tatcacaaca cctgcattaa aagactgcct cgggttagct 240  
catttttctt tttctgtcgg tagcaaagaa gctgtattgg aactcacaga acaactccgt 300  
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gctattcttg atcctgaagg aaacatagta gaaatcacta tttaa 405

<210> 208  
<211> 711  
<212> DNA  
<213> B.fragilis

<400> 208  
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gataatgtgc gtgcaaaacg gcttggtttt cgtacgaaag cggatgctat ttacattagt 120  
atacctctgg gagttacgat gcgagaggta aaagaggcaa tagagaagtt gcgtccccga 180  
ttactggatt ccaggcagaa gttggtgcgc cctttgattg acctgaacta tccgattgag 240  
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gagttgggag agatgcggat tatctgtcct ccaacagctg attttacaga ctogaatttg 360  
caggattggc ttcgaaaagt gattgaagaa gctttgcgac ggaatgcaa gattatcttg 420  
cctccccggt tgtatatgct ttcagagaag caccgtttac cctacgagag cgtgcagata 480  
aattcgagcc gtggcgcatg gggaagctgt tctctcgtg aaaagataaa tctctcttat 540  
ttccttgtat tgttgccaaa acatctgata gattacgtcc ttttgcatga actttgccat 600  
acttgcgaga tgaatcatgg agatcgctt tgggacttgc taaatgggct taccgatggg 660  
aaagcattgg aactacgcga agagttgaag aggtacaaga ctgagatctg a 711

<210> 209  
<211> 249  
<212> DNA  
<213> B.fragilis

<400> 209  
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ggtattgccg ttatgactgt ttgcogaatg aataataagc aatgtttgag tgaattggct 120  
ttagtgaatg ttgaagcgtt tgctacaggt gaaggagatg ttctacaag ttgttatggc 180  
agtggtaatg tagattgcc tataagcgat agcaaagttt cctatgttat gaatgggcgc 240  
agtttttga 249

<210> 210  
 <211> 1506  
 <212> DNA  
 <213> B.fragilis

<400> 210  
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 <212> DNA  
 <213> B.fragilis

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&lt;210&gt; 213

&lt;211&gt; 609

&lt;212&gt; DNA

&lt;213&gt; B. fragilis

&lt;400&gt; 213

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&lt;210&gt; 214

&lt;211&gt; 1815

&lt;212&gt; DNA

&lt;213&gt; B. fragilis

&lt;400&gt; 214

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&lt;210&gt; 215

&lt;211&gt; 918

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 215

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&lt;210&gt; 216

&lt;211&gt; 1296

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 216

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&lt;210&gt; 217

&lt;211&gt; 2286

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 217

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&lt;210&gt; 218

&lt;211&gt; 219

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 218

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&lt;210&gt; 219

&lt;211&gt; 1038

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 219

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&lt;210&gt; 220

&lt;211&gt; 2334

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 220

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&lt;210&gt; 221

&lt;211&gt; 225

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 221

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gaggtggtag	ttgggggtgg	actgcaaaag	gctgccagat	gtcatatatt	gactatgacg	180
tgccaaacta	tcgtgatgaa	tatggaggtt	ttaggcttgt	tttag		225

&lt;210&gt; 222

&lt;211&gt; 300

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 222

ccaaagaatc	tcaaaagtag	ccgtactatg	acatcaaccg	actccatttt	acaattaata	60
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agcggaagaa	aattttat	tcaaaaatca	ggttggcgca	tggcattttac	attctatcct	240
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 <211> 186  
 <212> DNA  
 <213> B.fragilis

<400> 223  
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 agagtagctg actacggatc agccgggttac aggtttgaat cctgtcgcga tcactttaag 180  
 gtttaa 186

<210> 224  
 <211> 852  
 <212> DNA  
 <213> B.fragilis

<400> 224  
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 aatctaccca atatcaactc ttccgggtttg aaaggagcta tacgcgaata tttcaaggag 180  
 aatgaaaatt tagtaagaga attattcggc agtgctccca aagacgaaaa aacactcccc 240  
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 atcattgaag aagtttctat acggggtact tgcccaagcc acattccctc tcaactgtct 540  
 ctaaagaaac ttttaggcga tagactgggtg atttttatcac ataaatattt ctctatacta 600  
 tccgatgaca atcatcttcc agtcctgtca cgcaataatc ttgaaaacgg gcagagcgcc 660  
 aatttgtggt atgaacaggt tttaccggc tatagccgac tttattttat gttaatggac 720  
 ggaaatgcac aaagtgaagta tctgaaaaaa ttcagagata ccctatgtac cccttctacc 780  
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 tcaccttttt aa 852

<210> 225  
 <211> 540  
 <212> DNA  
 <213> B.fragilis

<400> 225  
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 atgggtatag aggtcttttgc caagtacaaat tattttcaca aagagcagaa gcggacctgg 180  
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 aacttaccga tagcaaaatc aatctgttct ttagagtgtg tagccatcaa cgagaaacga 360  
 atcaacgtat cgttcggaga acatgcggga ggcacaactg gatttacaaa cacaccttcg 420  
 tcaaataaca tcttagttac cataaatgtc ttctccatat cacgtacata tagaggaatg 480  
 ataggagtgg aggtatgtcc gatctcaaaa ccaagttcac ggaaacactt taaagagtaa 540

<210> 226  
 <211> 798  
 <212> DNA  
 <213> B.fragilis

<400> 226  
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 atattcaagg accgttattt acaatgggat aatgcgttat taagtcaata cgaagaagag 180

atacaacaat	atggtaataa	agagccgttt	attatctatg	gtgtagaatt	gaaagaggac	240
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tcggcattgg	aacaagtagc	ttctattcct	gatcaccctc	tcaatcgata	tcagacatta	360
gttgacagcaa	atgataaggc	ttatattcca	ggaatgttag	aaataggagc	cagtcatgaa	420
gaaataaate	taatcagaca	agaggatcga	aaagcacagg	gagtaataga	ggatgacgaa	480
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&lt;210&gt; 227

&lt;211&gt; 747

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 227

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&lt;210&gt; 228

&lt;211&gt; 2355

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 228

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gtaaaaacag	aataa					2355

&lt;210&gt; 229

&lt;211&gt; 396

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 229

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caatacgata	gaatagggtt	tacggcgctac	tttctctgtc	aattgtccgc	cttcctcgta	360
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&lt;210&gt; 230

&lt;211&gt; 1152

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 230

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tttggaggag	aaagaacatt	ggatgatgga	aagagtgcag	attatatatc	gcattcaaat	120
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atatatatat aa

1152

&lt;210&gt; 231

&lt;211&gt; 183

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 231

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acgagaggaa	cagcttcccc	atcgcccacg	gctcgaattt	atctgcacgc	tctcgtaggg	180
taa						183

&lt;210&gt; 232

&lt;211&gt; 297

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 232

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caactgaata	gagtagctga	ctacggatca	gccggttaca	ggtttgaatc	ctgtcgcgat	180
cacaagaacc	tccataatca	aattatggag	gttttttggt	ttccttgcat	tatctctttt	240
attggatcat	acctaaattc	tgagggattc	ctctttttaa	ttggcagtct	gtactga	297

&lt;210&gt; 233

&lt;211&gt; 285

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 233

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ggagcccata	atcaatattg	tacaagtccc	aaaaatgcta	caggatgtgt	ttcggatcct	240
gatccaaccc	gcacttggtc	atattcaatt	ttttgtaaaa	aataa		285

&lt;210&gt; 234

&lt;211&gt; 1431

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 234

ctaaatagaa	aaaagaatat	tatgaatcag	ttaaccgcta	tactaaaaca	acacactcca	60
atgatccatt	ttcaacataa	tgaatcagga	gcaaccttac	gagcatcaga	agttaaacca	120
ttattagata	aattcattct	tacaaaactc	ggaaatggag	atattagaga	aggacggcct	180
tatgctaaaa	aaaataattg	gttaatagat	aatgaaaaaa	attatgcatt	aaattataag	240
ttaagtatat	ctctacaaaa	aaaaagtaga	ctagaatatt	taataacttc	tagtacattt	300
cctctaccaa	ctgagcgtcc	ctctaatttc	tttacgatcc	aaaatagtc	atatttttgt	360
caagaaaagt	gcgttgggtat	aaatacaaac	tctaccatta	tcttaaaaaa	aagcaatagt	420
gaccctcgta	aaaaagaggc	tgagttttaa	gaaaaaaatt	ggagtcaa	agacaaaaaa	480
ggactggaat	ggcaagactt	tactataaaa	atattctctc	tgaaagggtg	tttaataaat	540
aaaatccaaa	catattttacc	agcttttctt	atatgccaca	attttggtac	aagaaacaac	600
aaagggtttc	gttctttttac	tggtgaatat	atcaataatc	aaaaaaatat	atgcaatgta	660
gaagatacct	tgaaagaaaa	ttttgctttc	gtatataaga	aaaaaatagc	tttgtcatgc	720
caaagtacat	tggattttat	ctatatctac	aatcagatat	tttcaacaat	aaagaaggat	780
taccagattc	taaaatctgg	atataatttc	agaaacgaat	atataaaatc	acttctattt	840
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gtcaagataa	aatcagcaaa	caattgtatc	agtcgttaca	aatctccttt	attattttaa	1140
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gaaataacag	agcggacaat	gcatataaat	gagattgaaa	tgaactataa	taatagaatt	1320
aattatcatt	atacgccaac	ctccttttca	ttaatcgatt	ttatgcaata	tgcaatgtct	1380
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&lt;210&gt; 235

&lt;211&gt; 888

&lt;212&gt; DNA

&lt;213&gt; B. fragilis

&lt;400&gt; 235

agtatgagaa	aaataaaagt	aggaatcatt	caacaggcta	acacatcaga	tattaggata	60
aacctgatga	acctggctaa	aagtattgaa	gcatgtgccg	ctaattggcg	tcaccttggt	120
gttctgcaag	aacttcataa	ttctttgtat	ttctgtcaga	cagagaatac	ggattttatt	180
gaactggcag	aacccattcc	tggcccttct	acoggattct	attccgaact	ggcggcagcc	240
aatcggatag	tgcttggtac	ttctttgttt	gagaaaogtg	ctccgggact	atatcataat	300
acagctgttg	tctttgaccg	ggatggaagt	attgccggaa	aatatcgtaa	gatgcatatt	360
cctgatgac	cggcttatta	cgagaaattc	tattttactc	cgggagatat	tggctttgaa	420
cgattcaga	cctctttagg	caagttgggt	gtgttggttt	gctgggatca	atggatccg	480
gaagctgctc	gcctgatggc	gttgaaagga	gctgagattt	tgatttatcc	tactgctatc	540
ggttgggaga	gtacagatac	agatgacgaa	aagaaacgtc	agctcaatgc	ttggattatt	600
tctcagcgtg	cgcattgcgt	agccaatggg	cttccggtga	tttcagtcaa	tcgtgtcggt	660
cacgaacctg	atccgtcagg	acagaccaac	gggatattat	tttggggaaa	tagttttggt	720
gccggaccgc	aggggtgaata	cctggctcag	gccgggaaatg	accgctctga	aaatatgatt	780
gttgaggtgg	atcttgaacg	ttcggagaat	gtgcgtcggt	ggtggccatt	tcttcgtgat	840
cggaggatag	atgaatatgg	gaatttaaca	aaacgtttta	ttgattga		888

&lt;210&gt; 236

&lt;211&gt; 1839

&lt;212&gt; DNA

&lt;213&gt; B. fragilis

&lt;400&gt; 236

acctttggaa	ataacacgga	atccgaatta	atatgtactt	ttgcagacta	ctttaacaaa	60
aatataaata	atatattaaa	tatgttcaga	acgcacacgt	gaggagaggt	aagaatctcc	120
gatgttaata	aacaagtcaa	gctgtcggtg	tgggtacagc	gcagccgtaa	aatgggaggt	180
atgacttttg	ttgaccttcg	tgatcgctac	ggtatcactc	aattagttat	taatgaagaa	240
atagacgctg	agctttgcga	acgtgccaat	aaattgggtc	gtgaattcgt	catacagatt	300
gtcggaaaccg	taaacgaacg	tttcagcaaa	aacagtcata	tccgcaccgg	tgacatcgaa	360
atcatcgttt	cggaactgaa	tatcctgaac	tcagccatta	ctcctccttt	tactatcgag	420
gacaacaccg	acggtggtga	tgatatccgc	atgaaatacc	gttatctgga	cttacgccgt	480
agtgtgttct	gttcaaat	ggaattacgt	cacaaaatga	cgatcgaggt	tcgcagttat	540
ctcgataaac	tgggtttctt	ggaagtggaa	actccggtat	tgatcggttc	aactcctgaa	600
ggagcacgtg	actttgtagt	accttccgcg	atgaatccgg	gacaattcta	cgcattaccg	660
caatctccgc	agacactgaa	acagctattg	atgggttccg	gtttcgatcg	ttatttccag	720
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caattcgctc	aattaatgga	tatcttaaaa	gggcacaggt	tctctgtatt	cgataatgcc	1020
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caacaattga	aggaagcatt	cgggtgccaa	cccggtgacc	taatcttgat	tttatcagga	1260
gatgatgcc	tgaaaactcg	taagcagctt	tgtgaattac	gtctagaaat	gggtaataca	1320

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ccggaagata	tccatctgct	ggatacaaat	cctgctgctg	tgccgcgctaa	tgcttacgat	1500
atggtaatca	atggtgtaga	agtaggaggg	ggatcaatcc	gtatccacga	tagccagttg	1560
cagaacaaaa	tgcttgaatt	actcggattt	accccgaggc	gtgcgcaaga	gcagttcggc	1620
ttcttgatga	atgccttcaa	gtttggtgcg	cctcctcatg	gcgactggc	ttacggatta	1680
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aaaaataact	ccggtcgtga	cgttatgttg	gatgctccc	cagcactcga	tccgtcacia	1800
ctggaagaac	tgaacctgat	tgtagatatt	aaggagtaa			1839

&lt;210&gt; 237

&lt;211&gt; 1245

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 237

tatagtatga	aaaagtatcc	aaaaatcggg	attcgtccca	ccatcgatgg	acgtcagggc	60
ggcggttcg	aaagccttga	agaaaaaaca	atgaatctgg	caaaagctgt	tgccgagttg	120
atcacttcta	atttgaagaa	tggagacgga	acccctgtgg	agtgtgtgat	tgcatgatga	180
accatcggac	gtgtggctga	aagtgtgctt	tgtgcggaga	agtttgaacg	tgagggggta	240
ggagccacta	tactgtcac	ttcatgctgg	tggtacggtg	ccgaaacaat	ggatatgaat	300
ccgtattatc	cgaagctgt	ttggggattc	aatgggacag	agcgtccggg	agctgtatat	360
ctggctgctg	tgctggcagg	acatgcacag	aaaggacttc	cggcatttgg	catttatggt	420
cgcgatgtac	aagacttgaa	tgacaattct	attccggcag	atgtagctga	aaaaattctg	480
cgttttgcac	gtgcggctca	ggctgtagcc	acaatgcgtg	gcaaattctta	tctgtctatg	540
ggcagtggtt	ctatgggtat	tgccggttcg	attgtaaacc	cggacttttt	ccaggaatat	600
ctgggcatgc	gtaatgaatc	gattgatttg	acagagatta	ttcgtcgtat	ggccgaagga	660
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aatgagggca	atgactttta	tatacctgaa	aaaacgaaga	cccgtgcaca	aaaagatgag	780
gactgggagt	tcattgtgaa	aatgacaatc	atcatgcg	atctgatgca	gggaaaccct	840
aaattgaaag	aactcggatt	taaggaagag	gctttggggc	ataatgctat	tgccgcagg	900
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gacggaaccg	gacaacagac	gaatgctaac	ggtcttaacc	acggg		1245

&lt;210&gt; 238

&lt;211&gt; 411

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 238

ttaaaaacga	ataaatcaga	gaaaatgaac	tatatgatac	agcattatct	caaaacagca	60
atacgcaatc	tgctgaagta	taagacacac	agcattattt	ctgccatttg	tctttccggt	120
ggtatgactt	gtttcagcat	catccacttt	tttatcaatg	aaatagatgg	agcatcacgt	180
aacatgccca	atttcgaaca	aaggattttca	atccggatga	tcaattccaa	ccacgaagta	240
ggaggatggg	ggtggagtct	caattcttct	gagatccgaa	ccctgacaga	acatcccata	300
ccgggtatta	agcaaatctg	cttccactct	ttccaaagag	aagacgaagt	tgtattcatc	360
aatagggagc	agggaagaaa	agccttacat	catctcatat	atggatactg	a	411

&lt;210&gt; 239

&lt;211&gt; 495

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 239

aagaaaaaga	aaactatgaa	ttggaaatta	gtagaatgtg	aaattgcact	aatcgtatct	60
------------	------------	------------	------------	------------	------------	----



ttgacagtaa	ttgagtgtgt	gaatatggga	cagaattccc	ctaaagacat	tacatgtctt	120
actgtgtttt	tttgcattat	gattgttctg	ttgccactta	ttggtgtatt	gcaacaatgg	180
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gaagagctaa	cgaataaggt	aaatggacta	caacaaaaat	gtgattcctt	gatagaaaac	360
caagaaaatg	aattaaaaaa	attttatctt	tctattcttt	ctattattgg	cactaaagac	420
gatctgaaat	cgattgagga	gaacttcaaa	aagatgaagg	atttctttga	agaatataaa	480
aagataacta	aatag					495

&lt;210&gt; 240

&lt;211&gt; 186

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 240

ggagcagggg	agaaaagcct	tacatcatct	catatatgga	tactgatact	aatttctttt	60
cacattataa	tgcatacttc	ttatatggcc	aatgcttttc	ccacaactcc	gaaagaagtt	120
gtgttgtccg	aaagttgtgc	ccgtaaagta	tacgggaaag	agcaaccogg	tagggcacat	180
tactga						186

&lt;210&gt; 241

&lt;211&gt; 318

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 241

agagttaacc	tcagccaaa	atgttctttt	cgggttcggt	tatcggaaaa	aatatctccc	60
aaccatcttg	ttcgtgttgt	aagttacatt	gtagatgctt	tggatattag	ttacctgctc	120
tcggcttata	atggaggagg	caccaacagc	tatcatcccc	gtatgatact	caaggctctg	180
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aatattcaca	tcatgtgggt	gtccggtaat	agtacatcca	atttcgcgac	tatcaatgat	300
ttccgtggca	aggtttaa					318

&lt;210&gt; 242

&lt;211&gt; 186

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 242

tttaaaagcc	tctacttcat	ttacacattg	cagcagaaaa	tgtacagagt	acaaaaagaa	60
agactttttc	tcatacttgc	tttgatggta	ggtattcgta	aaatcgacca	aagtagtgat	120
cccaaagaat	gggtcgtcaa	aagcagaaaa	gaatttaaaa	tgttcttttc	tattccaatt	180
ttctaa						186

&lt;210&gt; 243

&lt;211&gt; 768

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 243

tgcaatgaag	attcgcaaaa	atatcgtgtc	ttcccctgga	gagcaaggac	tgcatactgt	60
tgttggttaa	cacatccttt	gagtgtagat	acgttgaata	tactatggag	gactatgttg	120
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ggagtggtcc	gctcttcttt	tagtccggat	agcctttctt	gtttatctta	ttcttcgata	240
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ctttgtgtga	ttcttacaat	ctatatatat	aagttgtctg	ttcacccctcc	taaaaataaaa	420
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tgtttccata	aagcaataga	acgtttgcgt	gatttgtaa	ggcagcttcc	tatgaccata	720
caaattgaat	atttggggga	ggaaatttat	cagatgcaa	ttttataa		768

&lt;210&gt; 244

&lt;211&gt; 204

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 244

tttattctgg	ataagcaaga	taaaatggta	tgttatataa	catcaaaggc	agagaacaaa	60
gcaattat	atagtaatca	tttactctac	aaccaacaga	gctactctta	cttaaata	120
gaaaagcatc	ccttgtgtta	caagaaatct	aaatctattg	actttactaa	tttaaagtac	180
aagtccaagt	ctatat	atga				204

&lt;210&gt; 245

&lt;211&gt; 1827

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 245

ggcacattac	tgaaaatagt	caagttgaag	gaaagcgaaa	aagataaaa	cacatactat	60
aaagttgtca	atgttatcag	gaatcttccc	aaaacactaa	atgttgaaac	agatatctat	120
ttctctcatt	tgagagaaga	gaacagacaa	caaggatata	tcacagaagg	tacactggaa	180
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caagttaa	tttatatagg	gctgttactg	atctgcaccc	ttgtaatgct	atatcccatc	660
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ataggtttac	ttatctttgt	aacaacagcc	tataaaatct	acagaatcat	gcatctcaat	1800
ccggcagaaa	taataaaaaa	cgaataa				1827

&lt;210&gt; 246

&lt;211&gt; 894

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 246

atgaaaacac	tcctaaatat	taaactccat	ttatctaaaa	agaatatatt	taccatctta	60
gttttttattc	ttgtttttaag	tggtactacc	ggttgcatc	aacacaaatc	cgaccagaaa	120
cgactgcctg	ctctttcttt	tactgtaaat	ggagagagct	ttgaaatgat	tccggtagaa	180
ggtggaacct	ttattatggg	aggcacaagt	gagcaaggta	atgattgcga	aaacaatgaa	240
aaaccaacgc	atgaggaaaac	tctaccgttc	ttttatatcg	gaaagtatga	agttaccag	300
aaactgtgga	aagcagttat	ggggactgat	ttcgatcaat	catacaattc	aggatgtgaa	360
gattgtccgg	cagagtatat	cagttggaat	gacacgcaa	agtttataag	caaattgaac	420
acccttacaa	acaaaacatt	tcgcctgcct	accgatattg	aatgggaata	tgccgcacgc	480
ggtggcaagt	atagtgaaaa	atacaaatat	agcggaaagta	atgatatcga	tgaagttgcc	540
tggtatatgt	aaaattatca	aaaaagtaaa	tatggagaca	aagggactac	acatccggta	600
ggtatgaaaa	agcctaata	attaggattg	tacgacatga	gtggcaatgt	atgggaatgg	660
tgtgacaatt	ggtacactca	agaatactct	caaaacggta	aatctgtcca	tcccggtatg	720
ccatttaattg	gtacatctgc	ctttttccgc	cggtgtctgc	gaggtggtag	ttgggggtgt	780
actgcaaaag	gctgccgagt	gtcatatatt	gactatgacg	tgccaaacta	tctgtatgaa	840
tatggaggtt	ttaggcttgt	tttagtaccg	gactcagtac	agactgccaa	ttaa	894

&lt;210&gt; 247

&lt;211&gt; 840

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 247

atcactgttt	gcacaatttc	ccgtatcttt	gcaggacgaa	tacgaattta	ctttcaacaa	60
tacatgaaaa	aattttatttt	agacctgaca	gtaactgaga	atctcagatt	gcataccaac	120
tatgtgctgc	tgaaattgac	ctctcagacc	gtcctcccg	atatgctacc	gggacagttt	180
gcggaatttc	ggatagatgg	ttcaccacc	actttcctgc	gtcgcccat	ttctattaat	240
tatgtagaca	gacaacgcaa	cgaagtatgg	tttctgatcc	aacttgtagg	tgatggaaca	300
aaacgtcttg	cgcaagtaaa	tcgaggagag	attatcaatg	tagtactccc	actcggaat	360
agcttcacaa	tgcccgaaaa	gccttctgat	aagctattat	tagtgggcgg	aggtgtagg	420
actgccccta	tgctctactt	gggtgaacaa	cttgctaaaa	acggcagtaa	accaacattt	480
cttttggggg	cacgcagcaa	caaagatctg	ctccaattag	aagattttgc	cgcttacgga	540
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&lt;210&gt; 248

&lt;211&gt; 306

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 248

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tgctatacaa	gaattatata	tcaacctata	cgaaaaaaga	taattaaaaac	cgtcgaaata	300
gtctaa						306

&lt;210&gt; 249

&lt;211&gt; 744

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 249

gattgtttta	ggcaaaaaata	cggttttctc	ttcaaatatt	tgtacttttg	cgaaaaatta	60
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&lt;210&gt; 250

&lt;211&gt; 840

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 250

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&lt;210&gt; 251

&lt;211&gt; 1359

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 251

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<210> 252  
 <211> 192  
 <212> DNA  
 <213> B.fragilis

<400> 252	
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agtaaaatga	atcaagaatt actcagattt atcgggtaca tctcttttaa ttgcgtatcc 180
gtgttaatct	ga 192

<210> 253  
 <211> 1191  
 <212> DNA  
 <213> B.fragilis

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ggatcttttg	atgtgtgac gatgcaatat ccgacaggag tgattaaata a 1191

<210> 254  
 <211> 2448  
 <212> DNA  
 <213> B.fragilis

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cattttgata	gtttccaccc tcaaagttca aggacttatg ccttgactac caccggtata 240
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&lt;210&gt; 255

&lt;211&gt; 1191

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 255

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&lt;210&gt; 256

<211> 570  
 <212> DNA  
 <213> B.fragilis

<400> 256

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<210> 257  
 <211> 786  
 <212> DNA  
 <213> B.fragilis

<400> 257

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tggttaa						786

<210> 258  
 <211> 1395  
 <212> DNA  
 <213> B.fragilis

<400> 258

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&lt;210&gt; 259

&lt;211&gt; 1416

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 259

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&lt;210&gt; 260

&lt;211&gt; 408

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 260

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ttggcatttg	ccgtcatatt	tgtcgtggtc	atctttgtat	atatgagttt	aagattacaa	120
cgagaaaaag	aagctaactg	tcatttttagt	gaaacatact	ccattcagtt	gacaaaaggc	180
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gtaaacaatc	aaactgaaac	agtagccgca	tttgacctaa	gtgaaaaagg	aggtacttac	360
cgttttgaaa	aggatattga	cggatatcaa	cagctgccac	aaaaatga		408

&lt;210&gt; 261

&lt;211&gt; 192

&lt;212&gt; DNA

&lt;213&gt; B.fragilis



<400> 261  
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 aatgttaatg actctttccg gcactctatta tcctctttcc aggaagttaa tatcgtaaat 180  
 gcaagaagtt aa 192

<210> 262  
 <211> 459  
 <212> DNA  
 <213> B.fragilis

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 aaaacaattc tcggttggtt gattggaggg tatgcccttc ttggtttgtt aggggggaac 180  
 tatgcatatg aacaagaagt aaaggcattg catgtatatg cggatagtgt ttttcatgaa 240  
 gcttttcatg tagaattgca aaaacgaggt atggatcaag tggaaagttg gagatatgga 300  
 tgtgaagact ctttcgtctc ttcagtggat acagccttca aaaaagttac tatacaggac 360  
 gagtacggta cgtatagttt tcgggttgat gcaatgaaga ttcgcaaaaa tatcgtgtct 420  
 tcccctggag agcaaggact gcatactgtt gttgttttaa 459

<210> 263  
 <211> 378  
 <212> DNA  
 <213> B.fragilis

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 gataaatggt tctgttttgt gaatatagac gcattcgatt tctgtaatat aaaatgtaat 180  
 gccggacaga tagaggattt gctagacaaa tatgaaggag tacaaccggg ctatcacatg 240  
 aataaaaagc attggattag tgtctatttt gataaagacg ttccggataa aatgattaag 300  
 gacctggtta agcaatcgta tgaaattggt gtatcttctt tggcgagacg agagagggaa 360  
 atattacaag ctatgtaa 378

<210> 264  
 <211> 744  
 <212> DNA  
 <213> B.fragilis

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 tctgatgatg aagttcaatt ctttagaagt tcaattatac aaaaactggg tgaccagcca 180  
 gatataattat accacaatca tgtagagaaa aataaatatc gctactctta tcccttaata 240  
 caatacaaga atatcgaaca acaagcaaca atcgtatgta ttgatcaagg aacaaaagca 300  
 attgagaaat tcttttcaca atgtgatttc aactttcaac tgggaaatag aaaagtcaat 360  
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 aattatcata ttcataactg gttgccttta aattcggata actacaaaaa gtatcaaaat 480  
 attagcattc tttcagaaaag aattaatttt ctggaaaaga ttttgatagg taatatatta 540  
 tcatttacaa aaggagtcaa ttattttatt gactttccac tacaatgtaa actccttcaa 600  
 cttagttttg ccaaactaat atctaataaa aatattaaat taatgtcgtt tgatgcagat 660  
 ttccaatgta atctaatact tccggattat attggaatag gcaaacatac aagcattgga 720  
 tatggtacga taactcgaaa ctaa 744

<210> 265  
 <211> 1152  
 <212> DNA  
 <213> B.fragilis

&lt;400&gt; 265

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gataatgtaa	ctcaagccga	agcccaactg	aaaaccgcac	ttgcacagtt	ggaatatgcc	360
cgtaacaact	atagccgcat	gaaagaggct	ctaaaaagtg	atgcggtcag	ccgtatacaa	420
gtattacaag	ctgaatcgaa	tgtagccgaa	gccactgcag	cagtcagcaa	tgccgaagcc	480
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gtaaacgatt	cgaatatagt	acgctacagg	catatcgaa	cgggacaact	ggtcaatgac	1020
acattgcgcc	agataaagag	cggactttca	cccaaagaac	aatatgtcac	cacagcactg	1080
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tctaactcgt	aa					1152

&lt;210&gt; 266

&lt;211&gt; 1239

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 266

cacatttgca	taattgagtg	ctatattcat	gcaaatgact	tcctatcac	cttttacaaa	60
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gatagcctct	ccgaaagact	gaaacaaggg	ataaaaataa			1239

&lt;210&gt; 267

&lt;211&gt; 636

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 267

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ttcttttctg	cttttgacga	ccattctttt	gggatcacta	ctttggtcga	ttttacgaat	120

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tacctgcttc	caatttcaat	ttccggtcat	cacgctctta	tggatgggcg	taatgtggca	600
gaacttatcg	agaagttaga	aacaacaaag	aaataa			636

&lt;210&gt; 268

&lt;211&gt; 432

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 268

accgtcttaa	tccttattat	actggaatac	atctacatat	tgatgttatg	gagtgtcttg	60
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aatccttatt	atactggaat	acatctacat	attacttggt	tgggcagtta	tctgtcttgt	420
atcgtgtctt	aa					432

&lt;210&gt; 269

&lt;211&gt; 285

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 269

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gcagttatct	gtcttgtatc	gtgtcttaat	ccttattata	ctggaataca	tctacatggt	180
acaatcaaca	atcaggatat	gggccttggt	gtcttaatcc	ttattatact	ggaatacatc	240
tacatgaaca	gtgacatcct	ttaccggacg	ccacacgtgt	cttaa		285

&lt;210&gt; 270

&lt;211&gt; 420

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 270

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gagataacag	aagcagctgt	tgccatgaaa	ttagcattaa	gaatgtacaa	aagtgaatga	420

&lt;210&gt; 271

&lt;211&gt; 2250

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 271

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aatccggcag	aagtaattaa	aaacgaataa				2250

&lt;210&gt; 272

&lt;211&gt; 426

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 272

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gaataa						426

&lt;210&gt; 273

&lt;211&gt; 996

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 273

cctttattga	tacgtatgaa	aataactttt	ggacaacaaa	cgaccaaagt	aaagcaactg	60
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&lt;210&gt; 274

&lt;211&gt; 687

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 274

aaaattacga	ttatgattaa	gacaatcaat	ttgcaaaaaa	tcttcaagac	cgaagaagtt	60
gaaacatggg	cattaaataa	cgtcagcgta	gaggtaaaag	agggcgaatt	tgtegccatc	120
atgggacctt	ccggttggtg	aaaatctact	cttctcaata	ttctcggttt	actggataat	180
cctacaggag	gagagtatta	tctgaacgga	aaagaagtat	ccaaatatac	agaatcgag	240
cgcaccaatc	tccgcaaagg	agttattggc	tttgtattcc	aaagtttcaa	tctgattgat	300
gaactgaatg	tatatgaaaa	tattgaattg	cccttactct	acatgggtat	tccggcctct	360
gaacgtaaac	aacgagtggg	aaaagcaatg	gagcgcagtg	ccattaccca	tagaagcaag	420
cattttccac	aacagctttc	cggaggtcag	caacaacgtg	ttgccattgc	acgcgcctga	480
gtagccaacc	ctaaactgat	tcttgccgat	gaacctaccg	gtaactctga	ctctaaaaat	540
ggtaaagagg	ttatgggact	attgagcgaa	ttgaataagg	aaggcactac	catcgttatg	600
gtaactcact	ctcagcatga	tgcaggtttc	gcagaccggg	taattaattt	attcgatggt	660
caagttgtaa	cagaagttac	tatttaa				687

&lt;210&gt; 275

&lt;211&gt; 630

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 275

agatacacga	tgttacaaat	agacaatgca	tgcattgctt	tccggcgagga	tatactcttc	60
tccgaatttt	gtatgcgact	aaataaaggc	gagacagctt	gcatagcagg	tcaatcagga	120
cgtggaaaaa	cctctctact	caatgcaatc	atgggatttg	tcccattaag	aaaaggcaaa	180
atcaaagtag	gaggtatctt	gcttgaacct	actactatcg	atgccatacg	cagacatata	240
gcttggaattc	cacaggagtt	agccctgccc	tccgaatggg	taaaagaaat	gatatcgctt	300
ccttttgcac	tgaaagccaa	tcgacacatc	tctttttcaa	aagaaaagct	tttcacttgt	360
tttgatgaat	taggactgga	caaagagctc	tatcagaaac	gggtaggcga	aatatcgggt	420
ggtcagcgcc	agcgcattat	gatagccgtt	gcagccatgc	tggaaaaaac	tttgattatt	480
gtagatgaac	cgacatctgc	actcgatgcc	ggttccacag	acaaaagttt	agctttcttc	540
cgtaatcagg	cagaaaaggg	aacggctata	ctcgccgttt	ctcatgaccg	gacattcgct	600
tacggatgta	accagctaata	cacactgtag				630

&lt;210&gt; 276

&lt;211&gt; 513

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 276

acgctttact	tttgtgaatc	aactaataag	tcatacat	gtaaatcttc	aaaggatatg	60
gaaataaaaag	ataggattaa	aattatcatg	gaaaaagaga	atatggcttc	cggtgctttc	120
gccgaaagca	taggtattca	gcaatccact	ctctctcata	ttttgaatgg	gcggaacaac	180
cccagtttgg	atgttattat	gaaagtacat	cagaaatata	actatgtaaa	attggaatgg	240
ctgttgtatg	ggcaaggcaa	tatatccgaa	gaaagcatcc	aatcagcttc	tgattttcaa	300
ccttccttat	ttgctgagaa	tgccataatt	ccgccaacg	ggacagttac	tccggaaaat	360
cgcagggaaa	tgccgttaga	aagttcccaa	aacaccccg	aagagattgt	aaaacaagaa	420
attagatata	tagaaaagcc	ttccagaaaa	ataactgaaa	taagaatttt	cttcgatgat	480
aatacgtatg	agacattcag	aggagaaaaa	ttaa			513

&lt;210&gt; 277

&lt;211&gt; 189

&lt;212&gt; DNA

&lt;213&gt; B. fragilis

&lt;400&gt; 277

tttatttttg	tgaaatatcc	tccgtcaatg	aatattccta	ttgatgtgat	agattcaatc	60
atTTTTTggtc	ttttttgtat	tagtttcgag	ttatcgtacc	atatccaatg	cttgtatggt	120
tgccatttcc	aatataatcc	ggaagattta	gattacattg	gaaatctgca	tcaaacgaca	180
ttaatttaa						189

&lt;210&gt; 278

&lt;211&gt; 2061

&lt;212&gt; DNA

&lt;213&gt; B. fragilis

&lt;400&gt; 278

aaaatatatc	ttattatgca	aaaaggtaat	attgggggta	caacagagaa	cattttccct	60
atcatcaaaa	agtttttgta	cagtgaccat	gaaatcttcc	tgccgggaatt	agtatccaat	120
gccgttgatg	ccactcagaa	gttgaatata	ttggcttcta	tcagtgaatt	taagggcgaa	180
ctgggtgatt	tgaccgttca	cgtttcatta	ggcaaagaca	ccattaccat	ctccgatcgt	240
ggtatcgggt	tgactgctga	agagattgat	aaatatatca	accagattgc	cttttcggga	300
gctaacgatt	tccttgaaaa	atataaaaac	gatgcgaatg	ccatcattgg	acacttcgga	360
cttgggttct	actctgcatt	catggtttcc	aagaagggtg	aaattatcac	caaatcatat	420
aaagaagggtg	cacagggcgt	aaaatggact	tgccagcgta	gtccggagtt	tacacttgaa	480
gaggtggaga	aagcggatcg	tggtacagat	atcgtattgt	atattgatga	tgattgcaag	540
gagtttctcg	aggagtcacg	catctctgcc	ctcctgaaga	aatattgcag	cttcctgccc	600
gttccccatcg	cttttggtaa	aaagaaagag	tggaaagacg	gcaaacaagt	agagacggcg	660
gaagataatg	tcatcaatga	caccattcct	ttgtggacaa	agaaaccgag	tgaattgtcg	720
gacgaagatt	ataaaaaaatt	ctatcgtgag	ctttatccga	tgtcagacga	acctttgttc	780
tggtttcatt	tgaatgtaga	ctatccgttc	catctgaccg	gtatcctcta	cttcccgaag	840
gtaaagagca	atattgattt	gaataagaat	aagattcagt	tgtattgtaa	tcagggtttat	900
gttacggatt	ctgtagaagg	tattgttccg	gatttcccta	ctctgctcca	tggtgtgctc	960
gattcaccgg	atattccttt	gaatgatatc	cgttcttacc	tgcaaagtga	ttcgaacgtg	1020
aagaagatct	ctacctatat	ttcgaaaaag	gtatcagacc	gtctgcaatc	tatctttaag	1080
aatgatcgcg	ctcagttcga	agagaagtgg	aatgatttaa	aaatctttat	taattatgga	1140
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gatggcaaac	attacacctt	tgaggagtac	cagactttga	ttaaagataa	tcagacagat	1260
aaagataaaa	acctgatcta	tctgtatgcc	aataataagg	acgaacagtt	tgcttatatc	1320
gaagctgcc	aaaataaagg	ttacaatgtg	ctgttgatgg	acgggcaact	ggatgtggcc	1380
atggtaagta	tgctcgaaca	gaaactggag	aaatctcgct	tcaccctgtg	agacagtgat	1440
gttgtcgaca	acctgattgt	gaaagaagat	aagaagagcg	atgtgcttga	ggcttcaaaa	1500
caagaagctc	tgtcagcagc	cttcaagagt	cagttgcga	aaatggaaaa	ggttgaattt	1560
aatgtcatga	ctcaggcttt	aggcgaaaa	ggctctcccg	tgatgataac	ccagagcgaa	1620
tatatgcgcc	gtatgaagga	aatggccaat	attcaggctg	gcatgagttt	ctatgggtgaa	1680
atgcccagata	tgtttaattc	ggtattgaat	tcagaccata	aattgggtgaa	agaagtattg	1740
gctgatgaag	aaaaagagtg	cagtgtgtcc	attgtctcta	tacagacgga	actggaagat	1800
gtgacaaaac	gtcgtgatgc	actcaagaaa	aaacaagaag	gcaagaaaga	cgaagatata	1860

cctactgcgg	agaaagatga	actcaatgat	ctggataaga	aatgggatga	gttgaagcag	1920
cagaaagatt	ctatTTTTgc	cggatatgca	ggcaaaaaca	aagtggtagc	tcagttgatc	1980
gatctggcat	tgTTgcaaaa	caatatgctg	aaaggtgaag	cattaaataa	ctttgtaaaa	2040
agaagcattg	agctgattta	a				2061

&lt;210&gt; 279

&lt;211&gt; 402

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 279

aatcactcag	taaaaaagga	gtgggaacta	tcaagaatat	ctaataatac	aaatcagaag	60
agcatgaaaa	aatatatact	atcgagtctt	acaattactt	ttttgttact	cagcatcaca	120
gcctgttcgc	aaggaaaagca	aatcagtgga	agttccaact	acatcactaa	aaatataaaa	180
gtcggttcat	tcgaccaaata	aaaatcgatg	agtagttcag	atattgttta	tacacaaaaa	240
cagggcgccc	ccaccgttca	gatttatggg	cccgacaata	tagttgaatt	gatggaaacc	300
tctgtcagcg	gtcgaacatt	aacgattaaa	ttcaaaaaga	atacctccat	ccgtaatagt	360
gggaaactcg	agatcagagt	atcttctcca	tcattaacct	aa		402

&lt;210&gt; 280

&lt;211&gt; 912

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 280

agattattat	taatactcat	gatacagact	agattgaaag	gaatgggggt	agcgctgatt	60
actcctttca	aagaggatga	aagcgttgat	tacgatgcgt	taatgcgact	ggtagactat	120
ctgctgcaaa	ataatgcaga	ttttctgtgt	gtgctgggaa	ctacagccga	aactccgacc	180
ttgagtgaag	aagaaaaaaa	gaaaatcaaa	aagatggtaa	tcgaccgtgt	caacggaaga	240
atccccatcc	tgctgggagt	cggaagtaac	aatacacgcg	cagttgtaga	gacactcaaa	300
aacgacgatt	tcaccggagt	agatgctatc	ttatccgttg	tcccttacta	caataaacc	360
tcacaagaag	gaatttatca	gcactataaa	gcaattgcaa	gcgctacaga	gcttcccatc	420
gtattatata	atgttccggg	acgtacagga	gttaatatga	ccgcagagac	cactttgcgc	480
attgctaagg	actttcagaa	tgttatagcc	attaaagagg	cttctggtaa	tatcaccagg	540
atggatgata	tcattaaaaa	caaaccggct	aactttgacg	ttatttccgg	agatgacggt	600
attactttcc	cgtcgattac	attgggagcc	gtaggagtca	tttcggttat	tggaaacgcc	660
tttccacgtg	aattcagcag	aatgacccgt	ttggcgctgc	agggcgactt	tgccaatgca	720
ctaaccatac	accataaatt	tacggaaactg	tttaacctct	tatttgtaga	cggaaaccca	780
gccggagtaa	aatccatggt	gaacgctatg	ggaatgatcg	agaataaact	ccgtttacca	840
ttagtacga	cacgcacac	cacatttgaa	gcgattcgta	aagtactcaa	tgaactgaat	900
ataaaatggt	aa					912

&lt;210&gt; 281

&lt;211&gt; 2236

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (16)

&lt;223&gt; Identity of nucleotide sequences at the above locations are unknown.

&lt;400&gt; 281

ggatgcattc	ttacancccc	gtggtgaata	cgtactgctg	gccatcctta	aagataagga	60
taatctggca	gcaacgggtc	ttgaagcgaa	tcatgtgaat	taccagcagg	tattcgaaca	120
attgtcctta	cagccggata	tcagtgccgg	catgggattt	acagaagatg	atgatgacga	180
agaagagatg	aatcagtcac	gttcgtccca	tggatccggg	gaacgtcagc	aacaggcgca	240
gactgcctcc	aggaagccga	ctaatagatac	tccggtgctt	gataattttg	gtactgatat	300
gactaaggcc	gccgaggaag	gccgtcttga	ccctgtgggtg	ggacgtgagc	gggaaatcga	360

gcgcctggca	cagatattaa	gtgcgcgtaa	gaagaataac	cccattttga	tcgggtgaacc	420
gggagtcgga	aaatcgcca	tagtgggaagg	tctggcactt	cgtattatac	agaaaaaggt	480
gtcccgtatt	ctgtttgaca	agcgtgtggt	tgcactcgat	atgactgcgg	ttgttgccgg	540
taccaagtac	cgtggacagt	ttgaggaacg	cattcgttcc	atcttgaacg	aattgcagaa	600
gaatccgaat	gtgattctgt	tcattgacga	gatacatacc	attgtaggtg	ccggatcggc	660
agccggatcg	atggatgctg	ccaacatggt	gaagccggca	ttggcgcgtg	gagagattca	720
gtgtatcggg	gccactaccc	ttgacgaata	tcggaagaat	atcgaaaaag	acggggcggt	780
ggagcgtcgt	ttccagaagg	taatggtaga	gcctactaca	gctgacgaaa	cggtgcagat	840
tcttcgtaat	attaaggata	aatatgaaga	tcatacacaac	gtaaattata	cggtgcgggc	900
attggaagct	tgtgtcaagt	tgacagaccg	ttatataaacc	gaccgtaact	tcccggataa	960
agctattgat	gcactcgatg	aagccgggtc	gcgtgtacat	cttaccaatg	tgagtgtacc	1020
caaggaaata	gaagatcagg	agaagttgat	cgaagaagct	aaaaataaca	agaacgaggg	1080
tgtcaaatca	cagaatttcg	aacttgctgc	cagttttcgc	gataaggaaa	aagaacttgc	1140
tgtccagttg	gatgtgatga	agaaagactg	ggaggaacgt	ttgaaggata	atcgtgagac	1200
gggtggatgag	gaagaaatcg	caaagtgcgt	atcaatgatg	tccggcattc	cggtacacgg	1260
tatggcacag	gcggaaggca	tcaagttggc	aggcatgaaa	gaagacctgc	aatcaaagggt	1320
gatagctcag	gacgatgcta	tcaaaaagct	ggtcaaggcc	attctgcgca	gccgtgtcgg	1380
actgaaagat	ccgaataaac	cgatttggtac	atztatgttc	ctaggcccta	ccggcggttg	1440
taaaactcat	ttggccaagg	aattggctaa	atatatgttt	ggttcttcgg	atgcattgat	1500
ccgtatcgat	atgagtggat	ttatggagaa	attcacagtc	tcacgcttgg	ttggagcgcc	1560
tccgggatac	gtaggatacg	aggaaggcgg	acaattgaca	gagaaagtac	gccgtaaacc	1620
ctattctatc	gtattgcttg	acgaaataga	aaaggcgcac	cccgatgtgt	tcaatctgct	1680
tctccaggtg	atggacgaag	gtcggctgac	tgacagttat	ggcagaatgg	ttgacttcaa	1740
gaatactgtt	attatcatga	catcgaatat	cggaaccgcg	cagttgaaag	agtttggggcg	1800
tggagtcggg	tttgccactc	aaagccgctc	tgacgataaa	gaattctctc	gcagcgtgat	1860
tcagaaggct	ctgaataaat	cgtttgcacc	cgaatttata	aatcgtgttg	acgaaatcat	1920
cacctttgac	cagttgtcat	tagaagctat	aacgaagatt	atcgatattg	agttgaaagg	1980
actgtataac	agaatogaat	ctatcggcta	taaactggtc	attgaagaca	aggctaataca	2040
gtttgtcgtc	tcaaaaggct	atgatgtcca	gtacggtgca	cgtccgctga	agcgtgccat	2100
ccagacctat	ctggaagacg	gcttatcgga	acttatcatt	tcggctgacg	tgaatgaagg	2160
agatacgate	actgtctctt	tgaatgaaga	aaagggtgag	ttggaaatga	agaatgaagc	2220
caaaacggct	gaataa					2236

&lt;210&gt; 282

&lt;211&gt; 717

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 282

tctaaatctt	ccggattata	ttggaatagg	caaacatata	agcattggat	atgggtacgat	60
aactcgaac	taatacaaaa	aagacaaaa	atgattgaat	ctatcacatc	aataggaata	120
ttcattgacg	gaggatattt	cacaaaaata	aatcaggctc	ttgaggaaaa	attgtcactg	180
aatatcgaca	taaccttttt	ctttaaattt	ataaaagaga	aaatagccta	tgaatataat	240
ttaaactactg	aattctgtca	aataacagaa	agtcattatt	tccgtggacg	gtatcgtggt	300
aacgatgcta	ataacaaaca	tttgttattc	agtgaacgta	agtttgaaga	ttcactaatt	360
gaaaatgatg	tcattttttc	ttacaagcat	ttacgtgaaa	tacaaaagga	aggtgaaatt	420
aacgttatag	agaaaggcat	tgatgtatgg	ttcgctcttg	aagcatacga	gttatcactc	480
tttcgaaaat	ttgattttgt	tattctgatt	acagggtgacg	ccgatcacga	aatgttaata	540
aaaaaattaa	aagctctcaa	aatccatata	attcttttaa	catgggattt	atctccagaa	600
tctgcaactg	cacggctgtt	gcgggaagaa	gcatgtaaac	atatagaatt	aagtgaatc	660
gctatagaag	ataaggatct	aataaaaaag	atatgcagaa	gcaagcaaaa	gagataa	717

&lt;210&gt; 283

&lt;211&gt; 771

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 283

aaaattatgt	ctgaaaatat	aagagtaagc	gaagtatccg	acattctgcg	gcagcagctt	60
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gaagggatcg	agaccaaagt	gcagcttgac	gaaataggta	cggtgctaca	ggtaagcgat	120
ggtgtagtgc	gtatttatgg	tctacgcaat	gccgaggcca	acgaactact	tgaatttgac	180
aatggtatca	agggcattgt	gatgaacttg	gaagaagata	atgtagggtc	cgtgttgctg	240
ggaccgacgg	ataaaatcaa	ggaggggattt	acggtgaaac	gtaccaagcg	aattgcttct	300
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ggaaaagggc	tgataggagg	tgaactttat	gaaatgccgc	tggagcgtaa	agctcccggg	420
gtcatctatc	gtcagccggt	gaatcaacct	ttgcaaaccg	gtctgaaggc	tgttgatgca	480
atgatcccta	tccgtcgtgg	acagcgtgag	ttgataatcg	gtgaccgaca	gacgggtaag	540
acatcgatag	ccattgatac	gatcatcaat	cagcgaagta	attatgaagc	aggtgatact	600
gtatattgga	tttatgtaac	tatcggacaa	aaagggttcca	cggtagcttc	tatcgtaaac	660
accttacgcc	aatatggggc	gatggattat	actattgtgg	tggcggctac	agctggagac	720
cgggctgcat	tgcaatatatt	tgctccgttt	ggcgggggct	gccatcggtg	a	771

&lt;210&gt; 284

&lt;211&gt; 798

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 284

aaaggagctt	tatctatgga	gttgcgtact	gtcaatgtca	ctcgttatat	tatgcctctg	60
cgtgaagggtg	gttcaactgcc	tgcattggca	gaagctgatg	acagttttta	gtatgttgtc	120
aagtttcggg	gagcgggaca	tggaaaccaag	gcattaattg	cagaactgat	tggcgggtgag	180
gttgcacgag	tattaggctt	tccgtgtaccg	gagttagtgt	ttttgaattt	agatgaagct	240
ttcggacggt	cggaggggtga	cgaagagata	caggatttat	tgcaaggaag	ccgcggatta	300
aatatgggac	tacattttct	ctcaggggct	ctaccattcg	atccggttgt	caactgaagt	360
gatgaaaaac	tggcatcaca	ggtgggtatgg	ttagatgctt	tattgactaa	tgtagatcgt	420
acagtgaaga	ataccaatat	gcttatgtgg	cataaagagt	tgtggttgat	agatcatggt	480
gcattctctat	tttttcatca	ttcatgggtc	aattggcata	aacatgcact	tagttctttt	540
acccaagtta	aagaccatgc	cttattgcgc	cttgcgggta	agttggagca	agtggtatgcc	600
gaatttcgga	aattactgac	ttcggaaaaa	atacgtgaaa	tagtggatct	gattcctgat	660
agctggatag	agtggcgtga	taaagatgaa	actcctcaag	atattcgtga	tatctattat	720
cgatttttga	aagaaaggat	tgaacattct	gaaatatttg	taaaagaagc	acaacatgcc	780
agaaaagcat	atttatga					798

&lt;210&gt; 285

&lt;211&gt; 441

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 285

tctgttttta	ctatgaatat	gagcatcaca	aaacgcaatt	ttctgggtta	tctcagcatc	60
cttactcttg	tagggggagg	attgggagcc	ttggtcttgc	attatctgga	acccggacat	120
tatttcggag	gttatccgtt	gataccggtg	tacttttata	tattcgggtg	attttatatt	180
tatatgtttg	atgcctgcag	gcgtcatgca	ccggagaaga	tgggtgatgct	cttttttagtg	240
gcaaaagtat	tgaaaatgat	tgtatcagtt	ttcttactaa	tcattttattg	tgtggctgtg	300
cccgattccg	ctattgaatt	totattgaca	ttcctggcgt	tctatctggg	ctatcttata	360
tatgaaagct	ggtttttctt	cgttttccag	tggaaatcaga	aacttacaaa	gaaatcaaaa	420
aaatatgaaa	cagttgcgta	a				441

&lt;210&gt; 286

&lt;211&gt; 1386

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 286

aaatatgtaa	cgcttcaacta	tatggcacaa	caaaccgatac	ccgcataact	gggtacagaa	60
cctattggca	aacttctgtt	acaatatctc	atcccgcca	tcacatcggaat	gactattacg	120
tcactttata	atatcatcga	cagtattttt	atcgggcacg	gtgtcgggtcc	catggctatc	180
tccggactgg	cgatcacctt	cccgcataatg	aatctggtcg	tagcgttctg	tgtactgatt	240

tccgcaggtg	gagctaccat	ctcatccata	cgcttgggac	aaaaagacat	caagggtgcg	300
accgatgttc	tgggaaatac	attgatgctt	tgcccgacga	atgcagtgct	gttcgggtgga	360
ttggcttata	tattcctgga	cccgatatgt	ttttcttcg	gcgccagtac	cggtagactt	420
ccctatgccc	gtgattttat	gcaagtgatt	ctcttgggaa	ctcccatcac	ttataccatg	480
ataggggtga	acaacgtgat	gcgtgctacg	ggatatccga	aaaaggccat	gttgacatcc	540
ctggtgacag	ttattgccaa	tgctcatcatc	gctcctgtct	tcattttcca	tttcggctgg	600
gggattcggg	gagctgctat	ggctacagtc	ctgtcacagt	ttatcggaat	gatatgggta	660
gtaaaccact	tccgtaacaa	agagagtttt	gtccatttca	tgccgggttt	ctggaaaatg	720
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ctataa						1386

&lt;210&gt; 287

&lt;211&gt; 993

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 287

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&lt;210&gt; 288

&lt;211&gt; 2307

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 288

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tgctcaagta	tatcttttga	agctattttc	aaaataggta	atcggaagat	gaataaatct	360
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gcaattctct	cggttgccat	cggtacatac	ggagcttact	acatgagctc	gttgtggata	2160
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ccggtgaaca	gcatacaagtc	tgagtaa				2307

&lt;210&gt; 289

&lt;211&gt; 1215

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (295), (339), (357)

&lt;223&gt; Identity of nucleotide sequences at the above locations are unknown.

&lt;400&gt; 289

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tatttggtcg	atgtttacaa	gcggaaatat	atatgtatgc	tttcggtttg	gggtnttggt	300
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attgtgcagg	gattatcttt	tggaaatggt	gccacggcag	gcatacatt	ggccatcgat	420
atcaccaatt	ccacttttcg	cagcgcagg	aatgtggtct	tttccctggc	tgcacgcttg	480
gggatgatta	tcggagcggc	tttgggagta	tatttggttc	ggacacatgg	ctttgagact	540
ttgctatatg	ttgctgtggc	gttgggagcg	ttgggaatat	tatttggtgc	aagggtatat	600
gttcccttct	gtgcacctat	cgggatgaaa	gtttgttcca	tggaccgatt	cctgcttctc	660
cggggactta	ttccggcatt	caattttaata	ttgattgctt	ttataccggg	attgatgctt	720
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aagaaggtaa	gataa					1215

<210> 290  
 <211> 1401  
 <212> DNA  
 <213> B.fragilis

<400> 290						
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gaagagcaag	tcgtgaatca	tgtacgcgat	gtgctgtatg	aaaccaagaa	taataccgtg	120
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<210> 291  
 <211> 1395  
 <212> DNA  
 <213> B.fragilis

<400> 291						
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&lt;210&gt; 292

&lt;211&gt; 1230

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 292

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aatctggtac	tgccaaaaga	agagagatga				1230

&lt;210&gt; 293

&lt;211&gt; 933

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 293

acaccttacg	ccaatatggg	gcgatggatt	atactattgt	ggtggcgggt	acagctggag	60
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gtgctggatg	tattgaaaac	cggagtgatc	aatgacgagg	taacgaaggc	cattgaagaa	900
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<210> 294  
 <211> 879  
 <212> DNA  
 <213> B.fragilis

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 aacgaactga ttcaggagtt gacaaagcag tataataaaa cccgccagca ggccattaca 840  
 aatgaattgc tcgatattgt aggtggcagt atggcatag 879

<210> 295  
 <211> 858  
 <212> DNA  
 <213> B.fragilis

<400> 295  
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 gactttgtag ttcattggagg cgacttcagt gacttcggac ttaccgatga atttctttgg 360  
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 tgtttgggaa ccggagaaga tgcattccgg caaatattcg gcgatacaaa cttttcgttc 480  
 atagccggag gtgtgaaatt tgtatgcttc aataccaacg caatggaata tgattattcg 540  
 gaaccgatcc ctgattttga ctatattgaa agacaactca cagaacgtgc cgacgaattt 600  
 aataaaaccg tattctgtat gcatgcccgt cccctttgtg atcagttcaa taacaatgtg 660  
 gccaaagtgt ttcaaagtga tgttcgcaa tttcccggtt tgcaattttg cactgtagct 720  
 cactgaacatc ggaatcagtc gtcagatgtg ttgacgatg gcgtgatgta ttatggaagc 780  
 aattgtatga aaaatcgagc ttatttagta ttcacgataa aacctgatgg ttatgattat 840  
 gaagtgggtg aattttaa 858

<210> 296  
 <211> 981  
 <212> DNA  
 <213> B.fragilis

<400> 296  
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 ggaaaagagg ctgtataccg aagattacga ggcaagtggt ctttcacctt tgacgaaatt 180  
 gccatgatt catgcaaact gggaatatca attgatcaga ttattggaaa tcaccagtcg 240  
 aaccgtgtga ctttcgattt aaacctgctt cactcaccg atcctctgga aagttattat 300  
 gagattatag aacgctatct gcgcataatc aactacgtaa aagatgatat cagcacgaag 360  
 atatataccg cttcgaacgt aattcctttc accctctatt cttcgtacga ataacttatca 420  
 aagtttcgcc tgtgcagatg gatttatcaa aatggaaaaa tacgtacccc aaacagctta 480

tccgggaatgc	acataccgga	caaagcggtc	catgcccata	aactgttgag	tgaggctgtc	540
aaagcgtgca	gaaagacctg	ttttatatgg	gacagcaatg	tcttctactc	gtttgtaaaa	600
gagatgaagt	atthttgccg	cctcaatctg	atttcggaaa	cagacctgat	acatttaaaa	660
aacgaactgg	agctgtttgct	gcatgaactg	gaacagatat	ccgcaaaagg	tgaattcagt	720
aacggaaaca	aagtagccat	ttacttatcc	aatatcgatt	ttgaagcaac	ctacagctat	780
atagaaaaga	aagattttcca	aatcagtcct	ctccgggtat	attctattaa	ctcaatggac	840
tctcaaagcc	cacgaatttg	cggcatacaa	aaagactgga	tacaatcatt	gaaaagacac	900
tccacactga	tttcagaaaag	cggagagtcc	caaagaatta	ctttcctgga	acagcagaag	960
agtttcatcg	acacctgtga	a				981

&lt;210&gt; 297

&lt;211&gt; 987

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 297

acagagaaac	agtacaaact	gaaaattatg	ataacaaacg	aattaaatat	aggcttaata	60
gaagccgcaa	aagaaaagat	gccgaccgga	accaacctgg	caaacactct	aatggacatt	120
ttatatatag	gtaaggaggc	catctatcgc	cgactgcggg	gagaagtacc	gtttactttg	180
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acctatcacg	atattctcac	gaaatatgtc	aatgcattcg	ataacatccg	ggaagatccc	360
actacagaaa	tggcaacctc	ttcaaacata	ttgcctcaag	cattatatct	caaacatgat	420
gtactttcaa	agtttcgtct	gtttaaatgg	atgtaccaga	atgaaaatat	caaagtcaag	480
cattttgatg	aactggagat	tccccacaaa	atatataaca	tccagaaaaga	ctttgtcaat	540
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gtgagagaca	tacagttctt	ttcggaaatc	cacctgggtt	cggagaaga	caaagagttg	660
ataaaaagacg	atthattgct	tctgacggat	gaattgggaag	agttggccgg	aaaaggtaag	720
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agctatgtgg	caaccagcaa	cagccatctc	agtatgatac	gcataactc	catcaatgcc	840
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cagcgtgaaa	taataaatac	cttataa				987

&lt;210&gt; 298

&lt;211&gt; 1392

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 298

caattcttcc	ttgtcccgtt	ttttctgctt	tctaataact	ttctaattctt	atctgagtat	60
cttataattg	ctttcaaacg	gtttgcttca	tgggggagtt	gtacttttgc	ttccaaaata	120
acaaggacta	tgatcagaaa	gttttttatt	ctcttttttc	ttggcttttt	cggatttgcc	180
gaagcccaac	agccgtccgt	cggcttgact	ctgaaggagg	cagagcaacg	tttctgaaa	240
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caggccggac	tgttcgataa	tccggttaatt	tcattcgaac	aaaatgtgta	taaccgattg	360
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gccggttatc	agttcgaaga	agtgatgagg	actttacgcc	aggaacttgg	cgaggcattt	540
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aactatttgt	cccggagagg	agaactgaat	ctgttactga	atctgactgc	cgactttcgg	780
acagagcctg	taatatagta	aggagatctt	cgacaattaa	acatggaccg	gttgtcttat	840
ccgagtttac	aagagagggg	acacgggaga	cctgaccaga	agttggcacg	cagctgtgtc	900
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aaaggtagtt	atgatcgcca	aggtaatttt	attaataact	actttgcaat	cggattcagt	1020
atgtcgggtg	ctatctttta	ccgtaaccag	gggaatatta	aaatggcccg	tttcaattctt	1080
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gcttatactg	cttttagagaa	agcatgtcag	ttgtatcagt	cgactgatat	gggactggaa	1200
cagaattttg	agaaactgat	agccggagcc	aacgagaact	ttatcaaacg	taacatcagt	1260
cttttagaat	tcacgcactt	ttatgatagc	tacaaagaga	cttgcacccg	gctttacgaa	1320
atcaagaaaa	acgtactgct	cggtatagag	aacctgaatg	cggtggcccg	acaacctatt	1380
tttaactact	aa					1392

&lt;210&gt; 299

&lt;211&gt; 678

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 299

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gatgggtgtaa	ttgtcgatac	agaagggcag	tataccgttt	tctggaatga	aatgggccc	120
aagtatgtaa	atgatgcaaa	ctttggttcc	aagggttaagg	gccagacact	ggtacagatt	180
tatgataaat	actttgcagg	agaaccggaa	aaacagcggg	atataaccga	ggcattgaac	240
cgctttgaaa	taaaaatgaa	ttatgactat	gttcccggaa	tagttgagtt	tatagcagat	300
ctgcgtcggc	atgggtgtgaa	aatagctttg	gttaccagtt	ccaatacggc	aaaaatggag	360
aatgtttatc	atgcccatcc	cgagtttaaa	tccctttttg	atgaaatatt	gactgcagag	420
cgttttaagc	gttctaagcc	tgatcctgaa	tgtttcttgt	tggaatgac	aattttcggg	480
tccgattcaa	aagattcgta	tgtgttcgaa	gattcatttc	atggtttgca	ggccggtaga	540
tcacccggag	ccattgttgt	cggattggca	actacgaatt	cacgcgaagc	cattgccgac	600
aaggcagact	atgtaataga	cgatttcaga	gggatgactt	acgaaaaact	gctgactata	660
acttcacggt	atatctga					678

&lt;210&gt; 300

&lt;211&gt; 687

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 300

tatcatttca	atcttaaaat	tatgacctac	ctcgctacca	accccttatt	ccatggaatc	60
tctccagaaa	cgctttcccg	tgattttgac	ggaatcgat	ctcacctccg	catgttccgt	120
aaaggagaca	ttcttgccag	gcaaggatg	gtatgcaatc	ggctgatgat	attactgaaa	180
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gaagttacag	caaacgaagc	taccgaagtt	ttcgaaattc	cgaaagaaag	cgtactgaaa	360
ttatttcgac	ggaatgagaa	attcttagag	aactacatga	atctttctgc	caattatgcc	420
cgaacacttg	ctgacaaaact	gttttttatg	tcttttaaga	cgattcggca	gaaacttgct	480
tcctatctgc	tacggatggt	gaaacaacaa	ggagacagtc	cgatacaact	tgaccgctcg	540
caacaggaac	tggttgatta	tttcggagta	tctcgtccct	ctctggcaog	cgagctggct	600
catatgcagg	atgacggcct	gatcaaaaacg	gacaggaaat	tagtgcatat	cttgagaaaa	660
gaagatatga	tgcaactgat	acaataa				687

&lt;210&gt; 301

&lt;211&gt; 213

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (16), (34), (78)

&lt;223&gt; Identity of nucleotide sequences at the above locations are unknown.

&lt;400&gt; 301

tccctgcaca	atgcanagca	tcaacagatg	tgtnrcgttc	tgcaccaacg	tataaccggg	60
ctggttgctg	caaccaanac	ccccaaacga	aagcatacat	atatatttcc	gcttgtaaac	120
atcgacaaa	taggcatgga	acgggccgat	aaaaaacatt	gcaagcgtaa	aaaatataaa	180
tatgactccc	gtctgactga	caggcacgcc	ttaa			213



<210> 302  
 <211> 396  
 <212> DNA  
 <213> B.fragilis

<400> 302  
 aagaagcaca acatgccaga aaagcatatt tatgaatacg ccgttggtcg gatagttccg 60  
 aaagtggagc gtgaggaatt tatcaacggt ggggttatct tgttttctaa acaggetgcc 120  
 tttatccgga tgcgttatga aattaataag aagaggttg aggccttacc accggaacct 180  
 gatatcgatt ctttccggaa atatttggag gctttcagta aagtgtgtgc aggtgtgcc 240  
 acgggaggag gcattgctaa actggaagtt ccggaacggt ttcgttggtt gacagcccat 300  
 cgtagttcct gcattcagac ctcaagacct catgttggtt attctgacaa tttagaggaa 360  
 acattggagc ggttggtcga ggaattggtt ctttga 396

<210> 303  
 <211> 207  
 <212> DNA  
 <213> B.fragilis

<400> 303  
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 tatgccgata ctttcttttc gattagaatt ttgcataaaa atgtgagatt cattcgtgaa 120  
 atagagaaaa aagataaaaa tagatcattc ttattaggtt atatgagcta ttttgttacc 180  
 tttgcgcccc cttattccat agcgtag 207

<210> 304  
 <211> 279  
 <212> DNA  
 <213> B.fragilis

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 accattttta aactgaaaat tatgttacta tcagtattat tgcaagctgc tgctgcagga 60  
 gtaggattaa gttaaattggg agcagctctc ggagctggtt tagctgttat cggagcaggt 120  
 atcgggtattg gtaagatcgg tggctcggcc atggaaggtt ttgcgcgtca accggaggca 180  
 tcgggagata tccgtatgaa tatgattatt gccgtgcct tgggtgaagg tgtagcgttg 240  
 ttggcattag ttgtttgtct attggtactt ttcttataa 279

<210> 305  
 <211> 1140  
 <212> DNA  
 <213> B.fragilis

<400> 305  
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 gatgttatgt ccaatgtcct tttattgaag gtattgctga ccaatgagaa gtttaacata 120  
 gtgacagcta gcaatgggaa tcaggcattg gaccaagtaa agaaagagaa tcccgacctg 180  
 atattgctag atgtgatgat gccggatatg agtggttttg aagtttctca aaagttgaag 240  
 gcggatcccc aagcggccca tattccgatc atctttttga ccgcattgaa tagtactgcc 300  
 gatatagtca aaggatttca ggtaggcggc aacgatttta tctctaaacc ttttaataaa 360  
 gaagaactga ttattcgggt cagtcacagc atttctttag tagcggccaa acgtattatt 420  
 gaagccaaaa cggaggaact taaaaagacg attatcgggc gtgataagct ttattctgtg 480  
 attgccccatg acctccgttc gcctatggga tctattaaga tgggtgctta tatgctgatt 540  
 cttagtttgc ccaaagaaaa aatcggcgaa gatattgat aactgctgac tatggccaat 600  
 cagactaccg aagatgtgtt ttcgttgttg gataacttac tgaaatggac aaaaagccag 660  
 ataggtaagc ttaaagtcgt atatcaggat atcgacatgg tggaggttgt agaggagta 720  
 ggagaaatct tcgcaatggt tgccggcctg aagaatattc gtttgcgaat tgaatcgccg 780  
 gaatgtcagg cggatcatgc cgatatcgat atgataaaga cggtgatacg caatttaata 840  
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gatggaatgt	cggtagttag	tgttaaagat	agcggatgcy	gtattgacga	agaaagccag	960
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tcgggactcg	ggttactttt	gtgccaggat	tttggttgta	aaaatggagg	aaagttgtgg	1080
tttactttctg	ttaaagatga	aggttcaact	ttctattttct	cgattccact	gaaaaaataa	1140

&lt;210&gt; 306

&lt;211&gt; 1599

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 306

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catgccatga	acaagggaat	tttcgaaaaa	gaacatccca	tcgcattatc	actactctcc	120
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cggcaaattg	aaaaatataa	catacagaaa	gaagagggtc	cacactcaac	gctctatatt	780
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aaacaaatat	taaacagaca	aaaagaaatg	ttggaaattt	acaaaaatga	aatcagagaa	1560
atagcttata	cgcattgatt	ggaaaataag	gaatattag			1599

&lt;210&gt; 307

&lt;211&gt; 2991

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 307

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atacaaaaac	atcacagggt	atctgtggta	tgtagaagaa	gaaataatcg	aaaaagtatg	120
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aatcagctgt	accgtgaatc	tctcttcaaa	agtttcacat	tagtcaacag	gttgctcaat	1560
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&lt;210&gt; 308

&lt;211&gt; 183

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 308

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ataatgaaaa	caaagataaa	gaccaataaa	caaataagctg	tcactacata	ccaacctgca	180
ttaa						183

&lt;210&gt; 309

&lt;211&gt; 369

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 309

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gaggctgctt	ttgccattcg	tacaatccct	aacctgttgc	tttgtccgat	gggaggaaaa	300

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<210> 310

<211> 1347

<212> DNA

<213> B.fragilis

<400> 310

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<210> 311

<211> 1683

<212> DNA

<213> B.fragilis

<400> 311

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taa						1683

&lt;210&gt; 312

&lt;211&gt; 252

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 312

ggaatcatga	aagaactgca	tttgaatatt	gtatcgccgg	aaaaagaggt	ctttaatggt	60
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&lt;210&gt; 313

&lt;211&gt; 567

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 313

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attgtcagtt	tcgacgggga	agtattc				567

&lt;210&gt; 314

&lt;211&gt; 231

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 314

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&lt;210&gt; 315

&lt;211&gt; 747

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 315

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&lt;210&gt; 316

&lt;211&gt; 204

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 316

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atccattccg	tctttacaat	gtaa				204

&lt;210&gt; 317

&lt;211&gt; 765

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 317

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&lt;210&gt; 318

&lt;211&gt; 1050

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 318

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&lt;210&gt; 319

&lt;211&gt; 3174

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 319

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&lt;210&gt; 320

&lt;211&gt; 1095

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 320

tttatgaatt	ggacaaaata	ccttccatgc	ctattgattt	tgggtatggg	gagtgggtgc	60
tcatcagaag	tgaagcacc	cggagaaaat	caagatctgt	gtctgacaga	cagtttactg	120
aaaatagttt	ccgtcgatac	ggtgcatctg	catgatgtgg	cagatgaatt	gactttgaac	180
ggacgtgtta	cttttaatac	ggaacagggtg	gcacacgtct	atccgatgtt	tggcggaaca	240
gtgacggagc	ttcgcgctga	agttggggat	tatgtgagaa	aaggagacat	acttgccata	300
ttgcgtagcg	gtgaagtggc	cgattacgaa	agacagatga	aagaggcggg	gcagcagggtg	360
attattgccc	gcagaaatgt	aaatgctacc	cgggatatgt	tcgattccgg	gttggcatcc	420
gataaagatg	tattgcaggc	acgtcaggaa	ttgatcaatg	ctgaagcggg	agagaatcgc	480
atcaaagaaa	ttttttccat	aaataacttt	agtggccggg	cattctatga	agtcaaatct	540
cccgttagcg	gttttattgt	ggaaaagagt	gtgagcagaa	atatgcagct	tcgtcccgat	600
cagggtgagg	agatatattac	tgtctccggg	ctggagcatg	tatgggtgat	ggcagatggt	660
tatgaaagcg	acatcagtaa	agtagcagaa	ggagcatcgg	tacatatcac	tacgtggca	720
tatccgggta	aggtgttctc	cggaaatata	gataaagtat	accacatggt	gaatactgaa	780
agtaagacaa	tgaacgtacg	ggtaaagctg	tgtaacgaag	actatctgct	gaagccgggt	840
atgttcacca	cgttcaatgt	tgagtgcaaa	tcttccggga	aacagatgcc	tcggatcaat	900
gcacatgcct	tgatatattga	aggaggtaag	aattacgtcg	taaccgtcac	ccccgacaac	960
cgctgaaag	tgaagaaggt	cgatgtatac	aaacggcaga	atcaggaatg	ctatgtccgt	1020
tccggacttt	ccgagggtga	cagagtgtcg	aatcagaatg	tattattggg	ctacaatagt	1080
ttaaatgcag	actaa					1095

&lt;210&gt; 321

&lt;211&gt; 627

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 321

gtaccgagtt	gcgtaagcac	ttggatatga	acacttttct	ctgcaggata	tggttttgat	60
cgccagacgt	tgactacaaa	accggttgct	tttccggatg	aagaccgtgc	cagacagttt	120
cctcttcctc	agaaaacgta	taaaagaaat	gcctatgtct	ctttcttctc	tacagcttcc	180
tattcgttga	tgaaccgtta	tacattcgga	ggaagtatcc	gttttgatgg	ttctgactta	240
tttggcgtag	acaagaaata	ccgttatattg	cctctgtact	ctgtaagtgg	attatggaga	300
ttgtcaaagt	aaccttttat	gcagggaact	agaaaatgga	tggataacct	tgcattccgt	360
gtttcgtagt	gtattcaggg	aaatattgat	aaaaatacat	ctccctttct	gttgggtaaa	420
tatattgtag	ataatatttt	accgggtggg	tcggaacata	tgattgatat	aaattctgct	480
ccaaacaaga	aacttcgttg	ggagaaaact	caatcagtaa	atgttggact	tgatttttccg	540
gtactcaatc	aggcgcttaa	tctgagtgtg	gattactatt	atcgtaaagg	tacagacctt	600
tttcgaagtt	caaatgattc	cacttaa				627

&lt;210&gt; 322

&lt;211&gt; 2574

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 322



acatacggct	ggcagcacc	gaagcgggta	caaacttcac	aatcgttttg	tctgaattgg	60
tataggcatt	ccatgctgca	agataagctt	tctgctcctc	ggcatcagga	gccaaaatgc	120
ctttttctac	agatgcggca	gcatctaact	tcaaataagg	aaagcctttt	tggaagcaag	180
ccaactgctc	agcgatttgt	acttccgaaa	tgcccttttt	ggcaagcaat	tctttgtctt	240
caggtgttat	catactatct	aatttttatta	attcatgccc	aaaaatacaa	aaaaagggaag	300
aggacaccct	acaaaaccog	gaaaaaaaact	atctttaccg	acgataaatt	tgagctgctt	360
atggaaagag	atgaattctt	tacgaaagaa	gagagagaat	tattgttctc	actatacaaa	420
aaactactgc	gtctcaccgg	agaaacctta	caaaaaggag	attgcagaaa	gctgaaaaag	480
catcttatcg	actccactca	aaacaatacg	atgcagaggg	acagtttttg	gctgaatcct	540
gttatcaaa	atatgcagac	tgctgtaact	gtggctgaag	aaatcggcac	gaaacgggca	600
tctattttag	gcattatgct	acacacgcct	gtacgttgcc	actcttatac	aatagaatac	660
attcaacagg	agtatggtga	agatgtggcc	ggaattatcc	ggggattaat	caagatcaat	720
gacctctatg	ataagagtcc	gaccatagaa	tccgagaatt	tccgcaatct	gctactgtct	780
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caaataaaag	atgccgaaaa	tgacgaggcc	cgcagacggg	tggccaatga	agcagcctat	900
ctgtatgctc	cgtagccca	caaactggga	ttgtataagc	tgaaatcgga	actggaagat	960
ttgtcactaa	aatataccga	acatgacatc	tattaccata	tcaaggaaaa	gctgaacgag	1020
acgaaaaagt	cacgtgaccg	ttatatgtcc	aacttcattg	ctccgatata	acagaaattg	1080
gaggaagcag	gactgcattt	ccacatgaaa	ggacgtacca	agtccattca	ttccatctat	1140
cagaaaaatga	agaaacagaa	atgccagttc	gaaaacgtat	atgacttggt	tgctatccgt	1200
atcatcctgg	aatctcagtt	tgaaaaagag	aagcaggaat	gttggcaggc	atattccata	1260
gtgacggata	tgtatcaacc	taaccccaaa	cgtctgcgtg	actggctgtc	ggttcccaaa	1320
agtaacggtt	acgagtcatt	acacatcact	gttatggggc	ccgaaggcaa	atgggttgaa	1380
gtacagattc	gtacggagcg	tatggacgat	attgccgagc	gcggattggc	agcccattgg	1440
agatataaa	gcgtgaagg	tgaaagcgga	ctggacgaat	ggctgacttc	aatacgtgaa	1500
gcactggaga	atacggagaa	cgacctggaa	atgatggacc	agttcaaact	ggatctgtat	1560
gaagacgaag	tattcgtatt	tacaccgaag	ggagaccttt	ttaaactggg	caaaggggct	1620
accgtacttg	attttgcttt	ccacatccac	agcaaattgg	gatgtaaatg	tatcggagca	1680
aaagtaaacg	gtaaaaatgt	acagttaaga	caaaagctga	acagcgggga	tcaggtagag	1740
attatgacat	cgaacacaca	gactccgaaa	caagactggc	tgaacattgt	cactacttca	1800
aaagcccgt	ctaaggttcg	tcaggccctc	aaggagatgg	tggcgcgctc	gcatgatttt	1860
gccaaagaga	ccctggaacg	caagttcaag	aaccggaaga	tggaatacga	cgaagctgtg	1920
atgatgcgct	taatcaaacg	cttgggattc	aagaacgtga	cagagtttta	tcagaagatt	1980
gccgatgagg	tactcgacgt	aaacgatatt	ctggataaat	acatcgaaca	acaaaagcgg	2040
gacagcgaac	gtgatgaggt	gacctatcgc	agtgcagaag	aatacaacct	gcaaaaccag	2100
atagacgaaa	caacagtcac	taaagaagat	gtactcggtt	ttgacaaaa	cctgaaagga	2160
ttggattttca	aactcgccaa	atggttgaat	cccataacg	gagacgatgt	attcgggttt	2220
gtcacagtat	ccggagggtat	caagatacac	cgaaatgact	gccccaatgc	aggacagatg	2280
cgcgaaacgt	tcggctatcg	gattgtaaaa	gcacgctggg	ccggtaaatc	ggaaggtact	2340
caatacccaa	taacactccg	cgttgtgggt	catgatgata	tcggtattgt	aacaaatata	2400
acttcgatca	tctcaaaaaga	aaatggtatc	tcgctacgtt	ctatcggtat	cgattcgaac	2460
gacggacttt	tctcgggtac	attgaccatt	atggtaagt	ataccggacg	tctggaagcg	2520
ctgatcaaga	agttgctcac	agtaaaagga	gtaaaacagg	ttagcagaaa	ttaa	2574

&lt;210&gt; 323

&lt;211&gt; 1479

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 323

tactcattgc	ttatgatttt	taccgctgaa	aacattctac	tcattgggtc	tattttacta	60
tttgtcagca	ttgttgtcgg	aaaaaccgga	tatcgcttcg	gagtgcgggc	cttattatta	120
ttccttcttg	taggtatgct	tttcggaagc	gacggattgg	gattacaatt	tcataatgcc	180
aagatagccc	aatttatagg	tatggttgcc	cttagcgtca	ttctgttctc	cggaggtatg	240
gatactaaat	tcaaagaaat	tcgtcctatt	ctttctccgg	gaatcgctact	ttcaacagtg	300
ggagtatttc	tcacggcact	ttttaccgga	ttattcattt	ggatatcttc	gggaatgagt	360
tggaccaata	ttccactttcc	attgatcact	tccctattac	ttgcatctac	catgtcgtca	420
acggattctg	cttcagttat	cggcatcctc	cgttcgcaaa	agatgaatct	gaaacataac	480
ctacgtccta	tgcttgaact	ggagagcgga	agcaacgatc	caatggccta	tatgcttacc	540

atagtcctga	tacaattcat	tcaatcagat	ggcatgggta	caggcaacat	aatcggttca	600
ttcatcatcc	aattcttggg	aggtgctgct	gccggatata	tcttgggaaa	actggcgata	660
ttgatactca	acaaaataaa	tatcgataac	caatcacttt	atcccattct	gttattgtct	720
tttgtattct	tcacttttgc	catcaccgat	ctgcttcgcg	gtaatgggta	tttggctgta	780
tacattgccg	gcatgatggg	aggtaaccat	aaaataaact	tccgaaagga	aattgcaaca	840
ttcatggatg	gtctgacctg	gctgttccaa	atcattatgt	tccttatgtt	aggactgctt	900
gtcaatcctc	acgaaatgat	tgaagttgcc	gttgtagcat	tgcttatcgg	agtattcatg	960
atcgttatcg	gacgaccatt	aagcgtattc	ctttgtcttt	taccatttag	gaagattact	1020
ttaaaatccc	gtctgtttgt	ctcgtgggta	gggctacgag	gagctgtacc	catcattttc	1080
gcaacttatc	cggtagtggc	aaacgtggaa	ggatcgaata	tgattttcaa	tatcgtgttt	1140
tttattacga	ttgtttcatt	gattgtacaa	ggaacaagtg	tttcgtttgt	ggcacgcttg	1200
ttacacttgt	ccactccact	cgaaaagacc	ggaaatgact	tcgggtgtaga	acttccggaa	1260
gagatagata	ctgatctttc	ggatatgacc	attactatgg	aaatgctgaa	tgaggcagac	1320
accctgaaag	atatgaattt	gccaaaaggt	actttagtaa	tgatcgtcaa	acgtgggtgat	1380
gaattttctta	tccccaacgg	cacactaaaa	ttacatgtag	gagacaaact	actgctgatac	1440
tcagagaaaa	ataagcagga	aacggttaag	aatgaatag			1479

&lt;210&gt; 324

&lt;211&gt; 312

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 324

ttactgatgc	tggttcacgca	acaggtcggt	cacagtcttt	accggattga	aagtggaaaag	60
tggaacctcc	acaaatccg	tactccaatc	gctcatagca	ccattccaca	aaccgggaag	120
ttcaagagct	ttcagatcct	taccactctt	cgacttataa	gagatgaagc	cggtagcttt	180
atccacatat	ttcgccaaat	caaatttatg	acccttataa	tcacgtacgg	cgcaaaccag	240
atcgaccggg	ttgaagtgcg	tacccttttc	aaacattttc	tttgcttcgg	gattattcat	300
atcgatttgt	ga					312

&lt;210&gt; 325

&lt;211&gt; 1248

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (473)

&lt;223&gt; Identity of nucleotide sequences at the above locations are unknown.

&lt;400&gt; 325

cattcctggc	gttctatctg	ggctatctta	tatatgaaag	ctggtttttc	ttcgttttgc	60
agtggaaatca	gaaactttaca	aagaaatcaa	aaaaatatga	aacagttgcy	taacatagtt	120
gccggaatgc	ttgtcttgat	aggaggaatg	ttgcctgcta	caacctttgc	acaggagcct	180
gtaccgggtg	ataccaccgg	tactttgcag	catgagatta	ttgtaggtaa	agacacaatc	240
aatcaagaag	ctaatacagg	agatgtaaaa	ggcatttgtg	tcggccctat	tgagagattct	300
tacgagtggc	atattacgaa	tataggaaaa	acttcgattt	gcattccggt	gcgattaatc	360
gtgtatagcg	aactttctgg	ttggcatgct	tttctgtctt	cgcgcttaga	agagaatggc	420
ggcaaatacg	agggatttta	tatagctcct	gccgggagca	agtatgaggg	ganagtagta	480
gaacgtaatg	cgacgggaga	ggaagtacgt	ccgtgggata	tttccattac	aaaggtaact	540
ttgtctctct	ttatcaatag	cgctattttg	ctggcgatca	ttctgagtgt	agcgcatgtg	600
tatcgcaaac	gtgaacaggg	tgcatatgct	ccgggaggat	ttatcggatt	tatggagatg	660
tttattatga	tggttcatga	tgatgtgatt	aagagttgtg	tgggacccaa	ctataaaaag	720
tttgctccct	atctgctcac	agcctttttc	ttcattttca	ttaacaatat	tatgggactg	780
atccccatct	ttcccgagg	agcgaatgta	accggaaata	ttgccataac	attggtatta	840
gctttattca	cattcgttat	tgtaaatata	ttcggaacaa	aacactattg	gaaagatatt	900
ttctggcctg	atgttccctg	gtggctgaag	gtacctatac	ccatgatgcc	gtttatcgaa	960
tttttcgggtg	tatttaccaa	accgtttgac	ttgatgatcc	gtctgtttgc	caacatgttg	1020
tccggacaca	tggccatggt	agtgcctacc	tgctgatata	ttatatcggc	aagcatggga	1080

ccggctatca	atgggttcgct	tacgggtggct	tccgtattat	tcaacatctt	tatgaatttg	1140
ctggaagtgt	tggttgccct	tattcaggct	tatgtgttca	cgatgttatc	tgctgtattc	1200
atcggactgg	cccaggaagg	cggtaaaaaa	gaagaagtaa	agaataaa		1248

&lt;210&gt; 326

&lt;211&gt; 2658

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 326

gtgctaatta	gatttaacat	gagactaaaa	acaatcctac	tgaccactat	ggccaccggt	60
tcatttttgt	gcgagcctgt	tgctgctatg	tgtattgaac	ctcccgaac	tcctgatatg	120
ggatggtttt	tgaaaaagaa	aaaaaagagt	aatccccaa	acagtattaa	ggttaagaat	180
gagtatgaga	aattaacagg	aagcgatagt	gtcgttcgct	gtggtatggt	caatgtatac	240
caaaagaaga	acgattatta	ctttgagatt	ccttccaccc	tggtggggcg	tgatatgctg	300
gtggtgaata	aactgcaacg	ggtacctgca	gaactgaatg	aagccggagt	gaatcgtgga	360
actaattatg	agaatcagat	gatccgcttt	gagttggata	aatcggctaa	taaattattg	420
atccgtcaaa	gtcgtccggt	acctatttca	ccatctgaag	atgccattag	ccaatcgggtg	480
aaggataatt	atatttctcc	gctgatagcc	gggtttaagg	tagaagcata	taataatgat	540
tctaccagca	tactgattaa	agtgaacgat	atatatgatg	gtacagagac	aagcataaat	600
aacgtattta	ccaatattaa	tcttggcaca	tcggccatca	agaatttatc	aagaattcta	660
tccatcaagt	cctttgataa	taatgtggta	gcaacctccg	aactgactac	tcgtgtgacc	720
gaaggtaact	ctactatcta	tgtgacggta	gaggttagtt	cctctatttt	gttgcttctt	780
gaagtgccga	tgaccggacg	tttgataat	ccgcgtgtgg	gatatttcac	taatcctctg	840
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ctggagccca	ggcctgaaga	tcgggcagcg	tatttacctg	gagaattggg	agaaccccca	960
aaacctattg	tcttttatat	agaaaattcg	acaccttatc	gttgaggaga	gtatattaaa	1020
caagggaattg	aagactggca	agtagccttt	gaacgtgccg	gatttataaa	tgccattatc	1080
gctaaagata	ttaccgagga	catggaggta	gatatggatg	atgtgaatta	ttctgtgctg	1140
acttatgccg	catctacca	agcaaatgca	atgggacctt	ctattcttga	tcgcggttcg	1200
ggagaaatcc	ttgaggctga	tatcatgtgg	tggcataatg	tactttcaat	gcttcaggag	1260
tggtattacg	tacaaacagg	tgtagtgcgt	cctgaggctc	gtggtgttgc	tttaccggat	1320
agtctgatgg	gagatgccat	gcgctttgtt	gcctgtcatg	aagtgggaca	ttcactcgga	1380
ctgcgccata	acatgatggg	atcatgggct	tttctacag	attctctccg	ttcgaaaaca	1440
tttaccgacc	gaatgaattc	gacttcatcg	tctatcatgg	attatgcccg	ctttaactat	1500
gtggcacagc	cgggtgatgg	tataaaggca	ctttctcccc	acatcggggc	gtatgatatg	1560
tttgctatag	aatatgggta	tcgttgggtat	ggcaagcaaa	caccggaaga	agaaaaagaa	1620
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gatccgcggg	atgccgttga	ccctcgtgca	cagaacgaag	atcctggcga	tgatccgatc	1740
cgttcttcac	agtatggcat	tgccaatttg	aaatgtattg	ttccccaat	cattcaatgg	1800
acaactcaag	gagagaaagg	acagacgtac	gaagaggcct	ctcgtttgta	ttatgccgtt	1860
attaatcaat	ggaataatta	tctttatcat	gtaatggcga	acattggagg	tatttatatt	1920
gaaaatacaa	cggtaggtga	tggtgagaaa	acttatacgt	ttgtggaaaa	ggagaagcag	1980
caggctgctt	tgagggtttt	gcttgatgag	gtgctatgct	atccgaaatg	gttggttcgac	2040
cctgaaatag	ctcaatatac	ttatctgctt	aaaaatactc	ctttggggagt	agtagagaat	2100
gccccaacac	aagtgttgaa	aaatgcacag	gcttatgttt	tttgggattt	actgtcgaat	2160
aatcgccctga	tgcgtatgct	tgagaatgaa	tcggtaaacg	ggaaaaaagc	cttcacagct	2220
gttgaattga	tggtatgggtt	gcataaaagt	atttttgctg	taacagagcg	tggtggactg	2280
cccgatgtta	tgacacgtaa	cttacagaaa	ggttttgtag	atgcattgat	tactgctgct	2340
gccgaaagcg	agggagtga	agttaacaag	aaattgattg	ataatcactt	cttggttcgac	2400
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atgggggctc	gccgtgaact	gaatttttat	gggtctcaga	taaaccgtat	ttccgacgcc	2520
atttcagtaa	aacgtgggtga	attgcttcgc	attaaagatt	tgcttcaaag	ccgtttgggc	2580
acatcgggatg	tagctaccaa	atatcactat	aaagatttga	ttttacgcat	aaatactgcg	2640
ttgggcattt	cgaaataa					2658

&lt;210&gt; 327

&lt;211&gt; 933

&lt;212&gt; DNA

## &lt;213&gt; B. fragilis

## &lt;400&gt; 327

aatacaaaaca	gggctgatat	gagacaattg	tactacactt	tccgaactct	tctccgtgga	60
agagggtggaa	atctgaccaa	aataatttcg	ttaacttttag	ggcttttggg	cggcatcctg	120
ttatttgcca	gggttgcaatt	tgaattaaac	tatgatagct	attatcaaga	accggaaaat	180
ctttttctaa	ctttacgtac	agttgtttcg	caaggtgaaa	agaaagagcc	tgtttgtagt	240
aattacggaa	aacttccagc	agcaattcgt	gaaaattttc	ctgatgaagt	ggaagatgca	300
actttgattg	acttatttag	tcgcagttcg	ctttaccatg	aaggccagga	aaagaaagat	360
gcaatactgg	ctacttcccg	aagccatatt	ttttccactt	tgggcgttaa	agtactttcc	420
ggaaatgtgt	ctgaattgga	taatatggat	gcactgttta	tatcccgttc	tcttgctcaa	480
agtctttttg	cagatgccga	tcctattgga	aagacagtaa	tgattaatat	tgattatcca	540
ttgactgttc	gagggtgtttt	cgaagatatt	ccggaaaatg	ccgagtttcg	gtttgatggg	600
gtctattcat	ttgtgactcg	tgctaataga	ttcagagatg	aacgtgggtg	atggcggggg	660
gatatcagct	atacatgtat	ggttcgtttc	cgccatccgg	aagatgtaga	gaaagtggcg	720
gcacgtatgc	ctgatatgct	gaagaagtat	atacagtata	ataaagactg	gtttgaagaa	780
ttttcgttta	taactccttc	acagtttcat	ttgcagaaaa	aggaatcacg	taaaattatc	840
agtattctat	cgattctcgg	atttgccatc	ttgctgattg	ccggcatgaa	caatgtactt	900
gatttctatt	tcattcattg	ctcaacgagc	taa			933

## &lt;210&gt; 328

## &lt;211&gt; 399

## &lt;212&gt; DNA

## &lt;213&gt; B. fragilis

## &lt;400&gt; 328

cagaaattaa	gaatggaaaa	attcagcacc	agaaaaagaa	tacggagctt	cggatatgcc	60
tggaaaggta	tccgaagttt	tgtaagcaaa	gaacataatg	cctggatata	ttgcacggca	120
attattatag	taacagtggc	cggattctgt	ttcggcatca	cccggaaacg	atggatggct	180
atcatacttt	gttttgaggt	agtactggca	gcagagggat	tcaacacggc	tatagaaaga	240
ttgggtcaatc	ttgtatctcc	ggaacgtaat	ccgatagcag	gtgatgtgaa	agatatcgca	300
gcgggttccg	ttctgatatg	tgctatagtt	gctgccattg	taggaattat	catcttcattg	360
ccttatgtac	ttgctgtttt	actgtgtaat	atgggataa			399

## &lt;210&gt; 329

## &lt;211&gt; 1536

## &lt;212&gt; DNA

## &lt;213&gt; B. fragilis

## &lt;400&gt; 329

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&lt;210&gt; 330

&lt;211&gt; 1809

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 330

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&lt;210&gt; 331

&lt;211&gt; 1593

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 331

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<211> 2595
<212> DNA
<213> B.fragilis
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gccggaataa	aatag					2595

&lt;210&gt; 333

&lt;211&gt; 1587

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 333

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&lt;210&gt; 334

&lt;211&gt; 948

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 334

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&lt;210&gt; 335

&lt;211&gt; 375

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 335

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&lt;210&gt; 336

&lt;211&gt; 1380

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 336

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&lt;210&gt; 337

&lt;211&gt; 1644

&lt;212&gt; DNA

&lt;213&gt; B.fragilis



&lt;400&gt; 337

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&lt;210&gt; 338

&lt;211&gt; 510

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 338

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atgcttgatg	aagtattaac	gaagaactaa				510

&lt;210&gt; 339

&lt;211&gt; 570

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 339

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ttcattgata	agaatcgaag	aattgtataa				570

<210> 340  
 <211> 1437  
 <212> DNA  
 <213> B.fragilis

<400> 340						
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ttgatattgc	tttctttatt	gttcgtgaca	gtcctgttat	tcacttttaa	gttggagata	180
gaagatcttt	ccggagcttc	attaaaggct	ttattttacat	ggcaaactct	gtgggtaccg	240
attttggttt	ctttggtttt	atttctggtc	atcggactat	ttccgggcaa	gttgtttgcc	300
gctattcctg	tgacacaagt	tttccatcgt	tttactgcac	atcgttttgt	ttggaagcga	360
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atagttgagg	agttttgtaa	tgcaagtacg	attatattatg	gtggctacat	gggtcaacct	600
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gggggacatt	ttcttgtcgt	gatcataatt	atcttgttgt	tgatcatagg	aagtgtcatc	1380
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<210> 341  
 <211> 288  
 <212> DNA  
 <213> B.fragilis

<400> 341						
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gtagaatcag	taaaactgat	cacagaccgc	gaaacaagaa	gatctaaagg	gtttgcgttt	180
gtcgaaatgc	cggaatcttc	agaagcaagc	aatgccatta	aagaattgaa	cggagcagaa	240
tatgccggtc	gtccgatggt	agtaaaagaa	gctttgccaa	gaaattga		288

<210> 342  
 <211> 921  
 <212> DNA  
 <213> B.fragilis

<400> 342						
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gacacaagaa	aagtgcagac	tcacgcctta	atcgaaatga	agcaaagagg	cgaaaaata	180
tctatgctta	catcgatga	ctacacaatg	gcacagattg	tcgacgggtc	cggtatcgat	240
gtaattcttg	taggcgattc	cgcacgaat	gtgatggcag	gtaatgtgac	tacacttctc	300

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atggtagtag	tggatatgcc	ttttggctct	tatcagggtg	atgaaatgga	agggcttgct	420
tcagctatcc	gcataatgaa	ggagagtcac	gccgatgcac	tgaaactgga	aggtggtgaa	480
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ggattgatgc	cacaatctat	caataaatat	ggtacatata	cggttcgtgc	caaggatgat	600
gccgaagcag	agaaattgat	tcgtgatgca	catttactag	aggaggccgg	atgtttcgga	660
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ccggtgatcg	gtatcgggtg	cgggtggagat	gtagacggac	aggtattggt	aattcaggat	780
atgttgggta	tgaataacgg	tttccgcccc	cgttctctcc	gtcgttatgc	cgatctttat	840
acggtaatga	ccgatgctat	cagtcactat	gtttcagatg	taaagaactg	cgacttcccc	900
aacgagaag	aacaatatta	a				921

&lt;210&gt; 343

&lt;211&gt; 1332

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 343

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cgtctcggac	taagcctctg	tttcgccata	actgcggctc	tgtcttatgc	cgacagagac	120
ttcatttgga	tgggattgag	cctctgtttg	ctactattca	gcatttggtg	gcaactttca	180
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tattacgaac	tgataatgga	ctgtataaac	accgggtgtac	tcgttctcaa	tgaaaatgga	420
gcggtttatc	aaaaaaataa	tgaagcgctt	cgctgtctcg	gattaaatgt	gtttacccat	480
atccgccaac	tgaacaaagt	ggatatacag	ctgatgaaga	aaatagaatt	ctgccgtccg	540
ggagataaaa	tacaaactat	tttcaacaat	gaacggggta	caatcaattt	atccattcgt	600
gtatcaggca	tcactgttcg	tgaagaacaa	ttgcgcattc	tcgcttttaa	cgacatcaac	660
agtgaattgg	atgaaaaaga	aatcgattcg	tggatacgac	tgacacgtgt	attgactcat	720
gaaatcatga	attcggttac	tcccatacacc	tctcttagcg	aaacactact	atcgttggcc	780
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gaaaatctga	tttcgcaagt	agtaattaat	ctattgaaga	atgccatata	agctatcgat	1080
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ccttttttta	ccaccaaaga	aggaggtagt	ggtatcggat	tgagcatttc	acgtcagatc	1260
atgcgtctgt	caggtggaag	catcactctg	ctgcaaggca	aagaaactaa	atttattctg	1320
aaatttaaat	aa					1332

&lt;210&gt; 344

&lt;211&gt; 723

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 344

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ctatcgctgc	tgttttacac	agaaaacgtc	gctgcacaaa	ccgacaaaaa	cgataccaaa	120
caaaagatag	ataccatcca	gacaacacag	ccggaatata	gcaaatatga	caaacgtatt	180
caccgttttc	gtaaaggatg	gaattcactt	atacctacac	acaacaaaaat	acaatatgcg	240
ggtaacatgg	gaatgttctc	gttcggaacc	ggttgggatt	acggaaaaag	agatcagtgg	300
gaaacggatc	tgttcttcgg	cttcataccc	aaacatgact	cccatcgggc	taagatgacc	360
atgaccttaa	aacaaaatta	catgccttgg	agcctggagc	ttgggaaaag	attttcaacc	420
gaaccttttg	catgtggtat	ctatttttaac	actgttttcg	gacacgaatt	ctgggtacac	480
gagcctagcc	gttatccgga	aggatactac	ggattctcgt	ccaagatacg	cacacacatc	540
tttctgggac	aacggctgac	atacgatata	gatagagaac	gccggttctt	tgcaaaatct	600
gtgactctct	tttatgagct	gagtacctgt	gacctattat	tgatcagccg	cgtaaccaac	660

agttacctgc gggctcggga ttatctgagt ttatccttcg gacttaaatt ccaatggctt 720  
tag 723

<210> 345  
<211> 255  
<212> DNA  
<213> B.fragilis

<400> 345  
cttgatata tcaacagcca ggggtgaaggt ttttcgggac ccggcggagg ctttatagac 60  
aatgagttcg ctcatcaca gtttgtattg gataatgatt attttctttt tactatttcg 120  
aatggtagac gtattgaaac gccttttttc attaatgtat tcagattggg atataaacgt 180  
tctttgaaag aatcccaatt gcgatgttcc atttgggtcc atcctgcttc tgccagtgcc 240  
agaccgcggg gatag 255

<210> 346  
<211> 1269  
<212> DNA  
<213> B.fragilis

<400> 346  
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aaagtagtat ttttgcgtca ttatatctta aaatattcaa tcatgaagaa aatactttta 120  
ctcggatcgg gcgaattggg caaggaattt gtaatttctg ctcaacgtaa aggtcaacac 180  
atcattgctt gtgattcata tgccggggca cctgccatgc aggttgctga tgaatgcgaa 240  
gtattcgata tgctgaacgg tgaagaactg gagcgtattg taaaaaagca tcggccggac 300  
attatcgccc ccgagattga agccattcgt acggaacgtt tatacgattt cgaaaaagaa 360  
gggattcagg tagtgccgag tgcacgtgcc gttaattaca caatgaaccg aaaggctatc 420  
cgtgatttgg ccgctaagga actgggactg aaaactgcga aatactatta tgccaagtca 480  
ttggaagaac tgaaggaagc cgctgagaaa atcggtttcc cttgtgtcgt gaagccttta 540  
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tgggaatatg ggtgtaatgg cagccgtgga gatattcgtg agctaactat tgaggaattt 660  
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gcacacattg atcctgcaca cttgaaggaa gcagaagata tggctgaaaa agtaactcgt 840  
gcattgaccg gtgcaggact gtggggagta gaatttttcc tgagccatga aaacgggggt 900  
tacttttcgg aactgtctcc acgtccacat gatacgggaa tgggtgacatt ggcgggaaca 960  
caaaatctga atgaatttga acttcaccta cgtgccgtat tgggggttgc cattccggga 1020  
ataaaacaag aaagaatagg agcgagtgc gttattctgt cgccgattgc cagtcaggaa 1080  
cgtccgcagt atagaggat ggaggaagtt accggagaag aggatactta tctgcgtata 1140  
tttggttaag cgtatacacg tgtgaatcgg cgtatgggag tagtgctttg ctatgctcca 1200  
aacggttcgg atctggatgc tttgcgtgat aaggcaaagc ggatagccga taaagtagaa 1260  
gtatattaa 1269

<210> 347  
<211> 645  
<212> DNA  
<213> B.fragilis

<220>  
<221> unsure  
<222> (97)  
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 347  
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tacgtagtag tcttcttcta cccgatggac ttcacttttg tatgtccac cgaactgcac 180  
gcatttcagg aaaagctcga agagtttgaa aaacgtgatg tcgctgtggg aggtgtgtcg 240

gtcgactctg	aatattctca	cttctcttgg	ttgcagatgc	ccaagaacga	aggaggtatc	300
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gtgctggccg	gaagctatgc	ccccgatgaa	aatggcaatt	gggtatgcga	agggacaccg	420
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aacgacttgc	cgctgggacg	taacgtggat	gaagtattgc	gcatggtaga	cgctttacaa	540
cattttgaag	agtatgggtga	ggtttgtccg	gccaattggt	cgaaaggcaa	agacgccatg	600
aaagctaccg	aagacggagt	agccaactat	ctgagtaagc	attaa		645

&lt;210&gt; 348

&lt;211&gt; 234

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 348

gatcatttgt	tttgtgtgat	tatttgcaac	ttgatactta	aaaacaacag	tttattcttt	60
atacgggaata	aaagacatta	ttacgtatta	aaaaagtctc	ttaaatattt	gccattttaa	120
aataaagggtt	tacctttgca	cccgaatca	agaacgcttg	atggcaatgc	actcttagct	180
cagctggtag	agcaattgac	tcttaatcaa	tgggtccagg	gttcgagtcc	ctga	234

&lt;210&gt; 349

&lt;211&gt; 900

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 349

actttaactc	caaagaaaag	cgaatattca	cctctatatc	ataacaatat	gcacaccatt	60
cagataaatg	atgattgtta	ccgagttccg	gaaagtggg	atgaactcac	cgaaaagcaa	120
ttgagctacc	tgggttaatct	tacacaaagc	gatattccca	tcgaagaact	gaaggtagac	180
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cagtcagaca	tgacaaaaaa	gcctgaaata	aaaaaaggat	tcctgatcga	tgccctgtat	840
acaatggatg	aatctctgag	aaaacaacaa	gagctgaatg	aaaatatgca	gaacaaataa	900

&lt;210&gt; 350

&lt;211&gt; 498

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 350

cccctgactt	ttatggagat	atacaaccac	tttgaatatg	gcaaaacact	tgccatccgc	60
ttaaagccta	ttgcccacac	acccgaaaag	cccagattct	tcaccgcttt	cggacttgag	120
gacttatata	attttaatga	taaactatca	tccgtatccg	gcatgatcct	gattgcagtt	180
gatggttgtg	aatctgaatc	aaaacgaaac	gaatccgatg	cgcttaataa	caatgatata	240
ttctctttca	ttgttgtaca	gaacactggt	tctgatcgtc	cggaacagct	caaccaggca	300
gcaaaagaat	gcaaagctat	cgcaaaacaa	attcggaaac	atatcctgca	agaccccgac	360
atttcagaat	tcattgacga	taccattcaa	tttaatggta	ttgggcccgt	tggtgataat	420
ttctatggcg	tagtactgac	attttctttg	gttcaacctg	aaacctattt	cattgatcaa	480
acatactggg	aggattaa					498

&lt;210&gt; 351

&lt;211&gt; 204

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 351

atctatcccc	caacttccaa	cgtatactta	aagatgcata	tgtcggacaa	atacgaaatg	60
ctgtcgcctca	tacacaatac	cattgtattc	aaggaggaaat	cttatatgac	aactactcac	120
catcaagtaa	atattctatc	ctgcaagggtc	tttcttatga	agaatgggag	aagaaatatg	180
tctactcttt	tttcataatt	atag				204

&lt;210&gt; 352

&lt;211&gt; 714

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 352

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acccgttcac	cttgggggaag	caggatagaa	gtcgtttgcc	aggatttcag	gttatacagc	300
aataagaata	atagcctgaa	atatgatata	atcgtatcaa	atcctccata	tttcacagac	360
tccctgaagt	gtccggacag	ccagcgcaac	acagcccgcac	ataacgataa	cctgtcttat	420
gaagagttgc	tgaaggaggt	atcgaattta	ctttcgccaa	atggtacttt	tacagtagtc	480
ataccgatgg	atgcaagtga	ttctttttaa	gacatcgcat	cttcacaagg	cctgtatcca	540
tcccgccagc	tcttggtcat	cactaaaccg	ggagcaccoc	caaaacgtac	cttgatctca	600
tttacattta	taaaacaaga	ctgcaaagaa	gagaaattat	taacagaagt	ttctcgccac	660
cgttacagt	atgaatacat	taaattaacc	cgggagtttt	atttgaaaat	gtaa	714

&lt;210&gt; 353

&lt;211&gt; 480

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 353

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aactcggttt	ctaacttaaa	cataaaaaa	atgagtgtaa	acaaatgtat	ttttatcggc	120
aacatgggac	gtgatgccga	ggtccgtacc	actgaaaccg	gcatcaaagt	agcccaattt	180
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cacaaaggaa	gcaaactgta	tattgaaggc	agattcacaa	cccgggaagta	tgaacaaat	360
gacggccaga	aacgaaccgt	ttctgaaatc	gtagccgaaa	gtattgaaat	gctcgatccc	420
aagcgggatg	ctccctcact	ccctccggaa	cccgagcaga	aattgagtta	taatccataa	480

&lt;210&gt; 354

&lt;211&gt; 609

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 354

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ccgccatttaa	atctatcgga	aagcctgcaa	ccaataatga	atgtagaaat	gataaagtgt	180
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cggagtgcga	taaatgaact	ttatatgcat	aaacgggaac	aagatgaaat	attaattact	360
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catctaata	gagaaaaaga	aataaccgta	gaccaattgt	ttaactattc	ccagatttgt	540
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cggatataa

609

&lt;210&gt; 355

&lt;211&gt; 1260

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 355

acgatgaagt	tttccgaatt	acaattaaat	gacaatgtac	ttgaagcact	cgacgctatg	60
cgttttgagg	aatgtactcc	tatacaagaa	caagcgatcc	cagtaatact	cgaaggtaga	120
gacttaatcg	ctgtagcgca	gacaggaacc	ggtaagacgg	ctgccttttt	gttgccctata	180
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aaaggcttga	tgcttggtgc	cgatgtgggt	atagctacac	cgggacgcct	gattgcacat	420
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&lt;210&gt; 356

&lt;211&gt; 471

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 356

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&lt;210&gt; 357

&lt;211&gt; 312

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 357

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&lt;211&gt; 351

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 365

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&lt;210&gt; 366

&lt;211&gt; 1299

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 366

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<210> 367  
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 <212> DNA  
 <213> B.fragilis

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 tacgaaactg aattagccgc tttaacggca gaattatcgg cagaacaagg tgaaaagggtt 960  
 tcaggataa 969

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 <212> DNA  
 <213> B.fragilis

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 <212> DNA  
 <213> B.fragilis

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&lt;210&gt; 370

&lt;211&gt; 3057

&lt;212&gt; DNA

&lt;213&gt; B. fragilis

&lt;400&gt; 370

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&lt;210&gt; 371

&lt;211&gt; 840

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 371

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&lt;210&gt; 372

&lt;211&gt; 342

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 372

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&lt;210&gt; 373

&lt;211&gt; 222

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 373

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gaaatagctg	ggtatgacta	taaacaagat	cagaaaggat	ctaatatgaa	attaagaaaa	180
aaggaactaa	agtatggaat	cagaaactat	aaaaacaggt	aa		222

&lt;210&gt; 374

&lt;211&gt; 1080

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 374

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&lt;210&gt; 375

&lt;211&gt; 2025

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 375

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&lt;210&gt; 376

&lt;211&gt; 1146

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 376

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&lt;210&gt; 377

&lt;211&gt; 516

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 377

cggcagaatt	atcggcagaa	caaggtgaaa	aggtttcagg	ataactttcc	tttggttttg	60
tgtcccgggt	ctatcgaacc	gttcatgcac	aaaggagact	gggcaatata	tgaagtgttg	120
ccctctcttt	tatctgaaat	cggaccggcg	gatataagga	tcgctacatt	cagtatctca	180
gaggacagtt	tacgcctctc	cttcttcctg	gccgatgata	aaaaaattac	aggctcgacc	240
ctcctgctcg	atacagcggt	aaaacggcac	aagcttgact	tgttactggt	tgccctccaac	300
atcacaccac	gcatacggat	tgactcctgt	catgcaaaag	tgttattggt	ggaaaatgac	360
aaatatcagt	tcggtattgc	cggttccgcy	aacctaaaacc	agaatcacccg	ctgggaaaat	420
ggattctatt	tcacttccgg	aaagcatttc	aattacttct	tggaaatggt	cgagcaggca	480
tataatcaag	caatcagtta	cgaaatatta	gaatag			516

&lt;210&gt; 378

&lt;211&gt; 582

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 378

gaaattgatt	attattgggg	gcaattaata	agtcctggcc	cacaggcgaa	tgatatgaga	60
atacaatttg	aaattaaaga	aaaattacct	gatattatcg	gggaaattct	gaattccgaa	120
aaatggatga	cccttattaa	ggaagatatt	tcgggtagga	aattggttgt	aatccgtgat	180
caggcattcg	attcggaggc	aactgtggag	atttactctc	gcgaagtgac	tattaagaca	240
gcatgggtcca	gatacactta	tcggctgttt	gttttaggag	actgtgtatg	gtgtgagtat	300



aatggtgctt	atcgtggatt	attagagcaa	aaactgttgc	catctatcac	ccctaaagag	360
agtctgttgg	attcgggaagt	tctggacagc	tcattgtatg	ggcatgaaaa	gaagaaactt	420
cgggaatatg	ctgaagataa	tcttaaactg	aagaaattca	gacgtgagaa	ttttaatgaa	480
aatcgtacgg	gggtagctcc	ttttgatcat	ccaaagaaag	tatatgatga	attcattaag	540
gaagactaca	ttgctccttc	ctcgaaggag	aataataaat	ag		582

&lt;210&gt; 379

&lt;211&gt; 1227

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 379

ggtatagatt	atatggtaca	aagtcagact	cagccgattc	gtagaattgc	atttcctata	60
ttaattgcat	taagtgtatc	tcactgttta	aatgatcttt	tgcaatctgt	catttcggct	120
gtatatcctc	tttttaaaga	agatctttcg	ttaagtttcg	ctcagattgg	attgataacc	180
ctagtttacc	agatgtcagc	ttctgtatct	caaccactga	ccggccttat	ttttgataaa	240
cgtcctatag	cttggtcgct	tcctatcgga	atgagtttca	ctttgatagg	tatgctgaat	300
ctggcctttg	catccaatct	gaattggctg	cttgcctctg	tctttatcat	tggaatagg	360
tcgtctgttc	tcctatcgga	agcatcccg	atcacctttt	tggcttcggg	agggaaaagg	420
ggattggcac	aatcactttt	tcaggtaggt	ggaaatctgg	ggggatcggt	aggcccttta	480
ttagtcgcat	tattagtggc	tccttatggc	aggcatcata	ttgcactatt	tgctatcctt	540
gctttggcgg	ctatgtgtgt	aatgtttcct	atttgccgct	ggtaccggtc	ttatctgaac	600
catcttaaaa	aacgtccgat	ccatgcaaaa	gcatatatcg	agcgcccgct	tcctcctcaa	660
aagactgtat	ttgctatcac	gatactgatg	attccttatat	tctctaaata	tatttatatg	720
gcaagtctga	acagctatta	tacattttat	ctgatccata	agtttaatgt	aagcattcag	780
cagtcgcaac	tctttttatt	tgtattttctg	gtagccactg	ccatttggac	attgatggga	840
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gctcctttta	gtttattgat	gccacatgcc	ggactcgtat	ggactataat	tcttagtttc	960
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ggcattgcat	ctgctgttct	tggcaatatg	gccgataagt	ttgggattga	tgctgtatat	1140
aatgtttgtg	catttatgcc	gttggttagga	ttgggtgacct	ggtttttacc	ggatctgaag	1200
aaagtgagaa	gtgaaaaaca	agaataa				1227

&lt;210&gt; 380

&lt;211&gt; 195

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 380

gataccattc	tgtatggacg	agatggcact	agtaaaggag	aactgctcat	tgacataaaa	60
ctgtgcaata	tggtgaaaga	gtttacacct	gacatggcaa	acagcatgca	aaagattgtt	120
cggaaatgtt	tccttagaac	cctgcagata	gtgaacaaga	ttcatgtatt	cacactgggtg	180
tacgaagcga	tgtga					195

&lt;210&gt; 381

&lt;211&gt; 2484

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 381

actaatttat	acgaaatgaa	gaaagaaaga	tatttaagag	agatggatga	ccagaatgat	60
aacgcatttt	cattaattgc	cgattttgac	ggaaacgaag	atcaagtgtt	tgacataaa	120
gttgggtgaa	ctcttcgggt	actccccctc	cgtaatatgg	tattgttccc	cggagtattt	180
atgcctgttt	ctgttggcag	aaaatcatct	ttgagattgg	tgaggggaagc	cgataagaaa	240
aaatcttata	ttgcagtagt	ttgccagaaa	atggcggaaa	cggacgagcc	ggcatttgag	300
gacttgcacc	cgatcggaac	cataggtgaag	attgtgcgtg	tactcgaaat	gcccagaccag	360
acaacaacag	tcattatcca	gggaatgaaa	cgcttgagc	tgaagaatat	cacggagaca	420
catccgtacc	tgaagggtga	agtgaacatt	gttgaagaag	aaatcccttc	aaaagatgat	480

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ctggtggact	ttatctgtac	gaaccttccg	ttgaagaagg	acgagaaaat	cgaactgttg	660
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cgggattaca	gtgtgcagtt	gaattatctg	cagacaatgc	tcaatctgcc	atggggagtt	1020
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ggtctggaga	aagtaaagga	acgcattctg	gaacatttag	cgtacttaa	attgaagggt	1140
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cacgatgaag	cggaaaattcg	cggacaccgt	aaaacttata	tcggtgcaat	gccgggacgt	1320
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gaaaagaaaa	tcggtaagat	tcttcgtaaa	tcggcccgcc	aatatgcaac	agatgggttc	1800
ttcttaaaaa	cagaaatcaa	accgactgat	ttgtatgact	tcctaggtgc	tcgggaatat	1860
actcgtgata	aatatcaagg	caatgattat	gccggtgtgg	tgacaggatt	ggcatggaca	1920
gccgttggag	gtgaaatctt	atgtgttgag	accagtctga	gccgcggcaa	gggcggacgt	1980
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atccatgtcc	atgtccccga	aggagctatt	ccgaaagacg	gtccgtcggc	gggtatcaca	2160
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ctggcagcta	agcgtgccgg	catcaaagaa	attattatga	gtgccgagaa	caaaaagaat	2340
attgacgaaa	tacaggatat	atatctgaaa	ggactgactt	tccattatgt	gaatgatgta	2400
aaagaggtct	ttgccattgc	actgactcaa	gagaagggtg	ccgatgccat	tgatttatcc	2460
gtaaagaaag	ccagccagga	atga				2484

&lt;210&gt; 382

&lt;211&gt; 198

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 382

cagattatat	acataacact	aaatatcgga	tgccgggttat	ttttgttatc	caaagatgaa	60
aaacaatcgt	taaatatgga	attatctcgg	gaagaaatag	aatatttctt	taaaccttat	120
cctgcagatg	agacggaggc	atagagata	tgcaatgatt	ttataaagaa	aatatcaaca	180
gataaaagta	ttctgttaa					198

&lt;210&gt; 383

&lt;211&gt; 213

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 383

tatataatat	attatcagcg	ttttattttg	ctttgggagc	agggggtcgt	gggttcgaat	60
cccgtacccc	cgacaggaaa	taagagtaat	cacacatgtc	aatgtgggta	ctcttatttc	120
attttgtgct	atggtggaat	tccgataata	cggaatgatg	caactggaac	agagcgacgc	180
cttttacatt	ttcaaataaa	actcccgggt	ttaa			213

&lt;210&gt; 384

&lt;211&gt; 696

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 384

aaatatgatt	ttacaattaa	aagaggaaaa	aagatatgga	agaatcatt	ggatggtatc	60
agccaaatag	atgccttccc	tgttttaaaa	gcacgacttg	gcaaaagtct	gccacaattt	120
gtttatactc	taagtccgga	taaacagact	gctactctgc	aaataatgaa	cttatatcaa	180
ttaccacaac	taaaacaatt	ttgtgactca	gtcttttcgg	tgattaacag	agaacatgta	240
cccaatttgg	ttatagatgt	caggaataac	aaaggagggt	caagtgctgg	agttgacatg	300
cttctgtcat	acttatcgca	tgatgcttat	acattatata	tcaaaactga	tttaaaaatc	360
agttcgtact	caaaacggta	caatgagcaa	aaacatccgg	aaacctatga	agagatcaaa	420
aatttacctg	acggttcttt	atttgctatt	cgggattctt	tcgtagaggg	aaaccgggac	480
aaagcagaca	tttataaagg	atcagttaca	gtattggtaa	atgaatccac	ttattccgga	540
gcctcgacat	ttgcatctgc	cattaaaaaa	tctcatgcag	gaaaagttct	tggcgaaacc	600
ggctgcccac	ctgtatatct	tggcaattac	atgtcattca	cattacccaa	ttcccgatta	660
gaatattata	tctcactcaa	caaattttat	gaataa			696

&lt;210&gt; 385

&lt;211&gt; 552

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 385

ctaaataaat	attttataat	gaaaagaatt	ctttgtccta	aatgtgagaa	ctatctttct	60
tttgatgaaa	ctaaatatag	cgaaggccag	tcatlggttt	ttgtatgtga	acactgtggt	120
aagcaattca	gtattcgtct	ggggaagagt	aagatgaagg	ctcctcgtaa	ggaagagaaa	180
ttggatgaag	atgtatataa	agaagagitt	ggctgtatcg	ttgtcattga	aaatgtcttc	240
ggtttcaagc	aagtcttacc	tctgcaagaa	ggtgataata	tcattggccg	ccgttggtga	300
ggtacagata	ttaatactcc	gattgaaacc	ggtgatatga	gtatggacag	acgccactgc	360
attattaatg	tgaagcgtaa	cagacaagga	aaattggttt	atactcttcg	tgatgccccca	420
agcctgaccg	gaactttctt	gatgaacgag	atcttggggg	ataaagaccg	tattcgccatt	480
gatgacggag	ccattattac	tattggagcc	actactctta	tccttcgtgc	tgcaaaaaaa	540
gaagaaattt	ga					552

&lt;210&gt; 386

&lt;211&gt; 210

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 386

gaaaggaggt	acgaaatggg	acgaataaaa	gaagaagcct	gggtcgaaaa	gtgtaccgta	60
cttcatgaag	gaaaggccac	acccaatatc	tattataacg	tttttgccga	tggtgagcag	120
ctctgcgaaa	tctcctatga	cagattaatc	gctatacgta	atcttattaa	ccaaattgag	180
aaagaaaaa	aaggagaatg	ccatgaataa				210

&lt;210&gt; 387

&lt;211&gt; 513

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 387

cctaatactc	ttatggatat	aatcgacaga	attaagcaat	atcttaatca	taaaggaatt	60
agtgattata	gatttgagaa	aacattatcc	ctatcaaaa	ggtacataaa	taaagctaaa	120
aatccaaccg	cggatatatt	aatgaagatg	tgtggtatat	ataccgacat	atctactgaa	180
tggctgctta	gaggtgaagg	tgagatggtg	agggagaaaa	gagaagacct	tggccttcat	240
cgggctgagt	cagcatctac	agatgaaaac	tctttaatct	ataagatgta	taaagagaaa	300
gacgatgaaa	ataaaaacct	aatcaagcag	aatgccgttt	tagaggaacg	catccgccaa	360
ctcgaagctg	acaatgaatc	attaagaagt	cagtcaggag	ctgataggat	aaccgatact	420
ttttccgata	taccattagt	agactacgaa	gaagattatc	cgcccgtaga	acgtccttca	480

agttccaaac atccgttagc aggaaaagcg tga.

513

```
<210> 388
<211> 579
<212> DNA
<213> B.fragilis
```

<400>	388						
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ggatatacat	ggacaattgt	ttctcgttta	ggcgatatgc	ttaacgaagc	tgaagcccta		120
tttggtgaa	cagataaaag	atatacaata	cttgggtattg	agttagctaa	tataaaacaa		180
ccacaaatat	ggtatccaaa	cgatttgtaat	catgtcataa	tacagggtcac	cgaagattgc		240
agcaacaata	tggaaagggc	aataatttcag	gtgggtcatg	aagcgataca	ttgcttatgt		300
cccaatccaa	agaaaaagac	tactatttta	gaagaaggac	tgggtaccta	tttttctatg		360
tattatacac	gtaaacgtaa	aatttattac	aattattgata	atcttcagta	tcaaaagcct		420
tatgaatttt	gttctaaatt	actaaactat	gattctgagt	tgattaaaaa	agcaagaata		480
atagaacctg	acattttctt	tatcaacaaa	gagataattac	taaatatatg	tcctaagata		540
gaccatactt	tattagatga	actaactaaa	aaatttttaa				579

```
<210> 389
<211> 333
<212> DNA
<213> B.fragilis
```

```

<400> 389
ttaatatatttc atcttggtcc cgtttatgca tataaagttc atttattgca ctccgatctg 60
tacttttgta agtgtaatcg atattatccg aatgaacaat ctgtaagaa tgtactgggc 120
gtatttgata aggtgtgtat aggatctctt ctatccatcg actatagact actctacact 180
ttatcatttc tacattcatt attggttgca ggctttccga tagattttaat ggcggttcgt 240
ctggccaaaa aacagcacgc gtcctggttca ttgcgtctgt gtgataatcc aaattataca 300
ctactcctct ctctatacgt atcgtttcaa taa 333

```

<210> 390  
<211> 246  
<212> DNA  
<213> B.fragilis

<400>	390						
tcaaaacatc	atattttgcaa	catgaatgac	gataaaacca	tcacagcagc	aattgagaca		60
agcaatgtaa	ctgcattgct	tgccgcttac	cggaaattta	caagttcctc	cggggctaca		120
accgatgaat	ttttccgttt	catcaccacc	cccactccgg	aacgggaaga	gttcctggca		180
ttgtactgct	cttcgacctc	ttctgtgtcc	ggtaccatta	tacaaactaa	ttacaatgca		240
ctatga							246

```
<210> 391
<211> 321
<212> DNA
<213> B.fragilis
```

<400>	391						
tcaagcaatc	agttacgaaa	tattagaata	gaaatggagt	tatcagatga	aaccttgcaa		60
caaatcagag	agatggccgc	agctctgctg	cctccggcag	aaatcgccat	tctaatttcg		120
ctgcctgccc	gtgaacgcag	ctacttctgt	gatatttgca	gaaatcatca	tcattctcct		180
atctacgaag	cataccatca	gggacgcctg	caaacaaaat	tcgaactccg	aaaaactgtg		240
atcaagattag	ccaaggccgg	aagtcggcgc	gccgagccac	ttgctgataa	atacatgaaa		300
gaacaaatca	tcaacgacta	aag					321

$$\begin{array}{ll} \langle 210 \rangle & 392 \\ \langle 211 \rangle & 201 \end{array}$$

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 392

ttacatgatac	agttctgttt	cattgattcgc	gggtcaaatac	aaaccatttta	caatggattg	60
gcagaggact	gtttatggga	gacggtactc	ttcagtaacg	gattcgttta	tcacgctctg	120
cagaagttcc	ggatctttat	agaggaaaag	gactttaacc	ataccgtcct	ttacaactcc	180
catttccatc	tcaattttcta	a				201

&lt;210&gt; 393

&lt;211&gt; 1125

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 393

aaagagtgtc	aacaagacta	taaattttatg	agaagcaatc	ggttttattaa	acgcctggac	60
ttatatatca	tcaagaaatt	cttgggggacg	tatgtatttg	ctattgcatt	gattatctcc	120
attgcagtag	tattcgactt	caacgagaag	atggataagt	ttatggaacg	gagtgcgccg	180
tggtcggcaa	tcactcttga	ttactacatg	aactttatctc	catatttctgc	gaatctgttc	240
agtcggttgt	ttgtatttat	tgctgtcata	ttcttcacct	ctaaactggc	tgaaaactcc	300
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ggcagtggtg	ctcgtctgga	ctttgaagat	aaatacgtga	aaaagaaaaa	gaccacttat	480
gtacacaata	tacagttgga	gatagacaca	ggcgtgattg	cttatattga	taactatcag	540
gattacaata	agacaggaaa	ccgttttttcg	ctggataaat	tcgtagataa	gaaactggta	600
tcccatttga	ctgcccgtag	cattacttat	gatactactg	cggttaataa	atggaccatt	660
aaggattata	tgattcgtaa	tctcgacgga	ttaaaggaaa	ctattgtccg	tgagagataag	720
atggattcca	ttataccgat	ggaacctgcc	gatttcatga	ttatgcgtaa	tcaacaggaa	780
atgttgacca	gccctcagct	tagtgcatac	atagataagc	agaaacaaaag	gggtattgcc	840
aatatcaaaag	agtttgaaat	agagtatcat	aaacgaatcg	ccatgtcatt	tgcatcattc	900
atcctgactg	tgatcggagt	atctctttct	tcaagaaaaa	caaagggggg	aatgggattg	960
catttgggaa	taggacttgg	actgagcttt	tcatatatcc	tgttccagac	cgtggcatct	1020
acttttgccg	taaatggaaa	tatgcctccg	atgatcgcca	tgtggattcc	taatttactg	1080
tatgcgctga	ttgcatttta	cctatataga	aaggctccca	aataa		1125

&lt;210&gt; 394

&lt;211&gt; 246

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 394

ggtttaagtc	atcttcattc	ttttttatct	tccatttttcg	gatttgggtct	tgccggcggtt	60
ctgctgacca	agtattgtcc	ggatccaact	ttgtttgaat	ccagagaggc	ctgggaagtt	120
gccagtgtga	atgcacatta	catctgggtat	tactttgcgg	caatcggttt	ggttgcagca	180
attgctttgc	ttattttttgc	aaaaatcact	gatttcatcg	ataaaaaagaa	gaaaactaac	240
gtctga						246

&lt;210&gt; 395

&lt;211&gt; 1521

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 395

aacaacaacc	aacgtatgat	gaaccaagaa	ttattaatga	gtcccaaccg	tttgggtgact	60
tttctgcaaa	agcctgctgc	tgagttttaca	aaagcagaca	tcattaacta	tatccaacag	120
aatgaaatcc	gcatgggtcaa	ttttatgtat	cctgctgcgg	atggacggct	aaaaactctg	180
aattttgtga	taaacaatgc	ttcctatctg	gatgccatcc	tgacttgccg	tgaacgggta	240
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&lt;210&gt; 396

&lt;211&gt; 570

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 396

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ccaatagggt	ttatcaaacc	taaacactaa				570

&lt;210&gt; 397

&lt;211&gt; 231

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 397

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&lt;210&gt; 398

&lt;211&gt; 1002

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 398

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&lt;210&gt; 399

&lt;211&gt; 537

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 399

acaatgaaac	atcatgtaca	ccttatcatt	tattttgctt	gcatttcagt	tggtatactg	60
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&lt;210&gt; 400

&lt;211&gt; 828

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 400

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&lt;210&gt; 401

&lt;211&gt; 381

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 401

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 <212> DNA  
 <213> B.fragilis

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<210> 403  
 <211> 597  
 <212> DNA  
 <213> B.fragilis

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<210> 404  
 <211> 1533  
 <212> DNA  
 <213> B.fragilis



&lt;400&gt; 404

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&lt;210&gt; 405

&lt;211&gt; 255

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 405

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&lt;210&gt; 406

&lt;211&gt; 237

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 406

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&lt;210&gt; 407

&lt;211&gt; 1158

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 407

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&lt;210&gt; 408

&lt;211&gt; 1068

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 408

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&lt;210&gt; 409

&lt;211&gt; 183

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 409

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attaatttga	tgaaaacaac	ttatcagttt	aacatactcg	tcaatcattt	ggagctggct	180
tag						183

&lt;210&gt; 410

&lt;211&gt; 402

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (276)

&lt;223&gt; Identity of nucleotide sequences at the above locations are unknown.

&lt;400&gt; 410

tatattccca	ataaacaaga	tatatcactg	ataattaaca	ttaattttat	tattatgaac	60
tttgatttaa	aagcgttttag	aaaacgattt	ggtttaaaac	agggttgaagt	ggctcattta	120
ttcaattgtg	ggcagagcaa	tattttcagat	attgagactg	gaaaaagagg	gcttgaagag	180
tatcaaacaa	gaattctctt	cgataaatac	ggagaagagg	tagttaaaga	gtacttaata	240
cctgagagtg	ccattcatca	aggggaatata	aacggngata	atataaacgg	gcacaatgtc	300
actgtaaata	aagcagactt	tgataaacctt	attagcttgt	taaacaaaag	ggatgaacaa	360
atagatagat	tattgcgtat	tattgaaaat	ttaataaat	ag		402

&lt;210&gt; 411

&lt;211&gt; 621

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 411

gagaggaaca	atattatgac	attaaagcaa	gctcagaac	tgtacgatga	ttcagtgac	60
gcaaaaatga	ctcatgcoga	ttattgcatg	actcaatcgc	aacttgaata	tatcggtaga	120
actatgtggg	gattcacccc	agacaaacaa	gcaaagggtg	tattcaccaa	agtaggaaag	180
agggtgtcgg	tagttattgc	gtcacgagaa	gcatttatta	aagagatagg	aaaacctgtt	240
atctgcaaat	gttcggtatg	cgatatgtat	tatttagctt	atagaaagtc	ggtcgatgct	300
cacgatgaat	taaattgccc	atgtccaaaa	tgtgattctc	ttggttgtga	ttcagatatt	360
gtacattttg	aaacaagccg	caaatttttg	ctaaacgaga	agatcgttaa	aatccttact	420
cccaataaag	accctgaacg	agtgggaagct	atgtacgatt	ccgctccgga	agattttcct	480
gcacaatatg	agatgttgct	tcccgatgga	aagagggtga	cagatttgtg	gcgatgtgcc	540
acatgttgca	gcgtatttgg	tcaaaaagaa	agtgcacta	tttgccagtg	gcacccctcg	600
agatattcag	cgggagaata	a				621

&lt;210&gt; 412

&lt;211&gt; 690

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 412

cattcactaa	atagctttta	tcaccaatgt	ctaattttta	aacggcaaaa	catgaaaact	60
ccatctttta	ttctgatgac	aattatttta	tgtaatctca	gtatcccaat	aaatgctcag	120
atactaacct	cccgccagca	aaaggaagat	tttgacacct	tatatagctt	actacatcag	180
gtacatccgg	acttatttgt	gtatcaaaca	caaaaagaat	ttgaaaagaa	acatgattca	240
atataatagt	cgttgaataa	agaacgaaac	ctttctgatt	tttactttat	agtctctcca	300
tttggttgc	ctgttaaaga	tggtcatact	aatttcacaa	ttcctgctac	tcaagacaga	360
attacctatt	tgaataatgg	agggtcgtact	ctgcctttac	gcttaaaaaat	agtagagaat	420
aagatattgg	ttgattttcc	tctaatatcc	tggtcaatac	aggaaaatga	tgaataata	480
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tataaatata	attgggggtga	aaatatgatt	ttacaattaa	aagaggaaaa	aagatatgga	660
aagaatcatt	ggatgggtatc	agccaaatag				690

&lt;210&gt; 413

&lt;211&gt; 477

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 413

catattgtaa	atcaacagaa	tatgaatata	aacaatatcg	gaggagtc	cat	tcaggcagat	60
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<210> 414
<211> 243
<212> DNA
<213> B.fragilis
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<210> 415  
<211> 609  
<212> DNA  
<213> B.fragilis

```
<210> 416
<211> 363
<212> DNA
<213> B.fragilis
```

```
<210> 417
<211> 195
<212> DNA
<213> B.fragilis
```

<400> 417  
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tcgtacggat	ataaaccaat	tataatcaac	acattatgtg	ataagactgc	acaattttaca	120
cagttgcaca	aaaaaggagt	accgtttttg	caagggggat	tagtttggtc	cggttaagtct	180
tgtttatgtc	cgtaa					195

<210> 418  
 <211> 759  
 <212> DNA  
 <213> B.fragilis

<400> 418						
acaattaaaa	acacaataac	catgaaaaaa	attatttttat	tacttgcttt	atgtttttact	60
gcaataaatt	tctttgcaca	aaccacagat	ccgaatcagt	tgaagaatga	aggtaaatgat	120
gctttgaatg	caaaaaatta	tgccgttgct	tttgaaaaat	acagcgaata	tctgaaattg	180
actaataatc	aggattctgt	cacagcctat	aattgtggtg	tatgtgcaga	taacataaag	240
aatataaag	aagccgccga	ttactttgat	attgcgatta	aaaaaaatta	taatcttgca	300
aatgcatata	taggtaagtc	tgctgcctat	cgcgatatga	aaaataatca	agagtatatt	360
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gctatttatt	atttgaaaga	aggacagaaa	ttccaacaag	ccggcaatat	cgagaaagca	480
gaagagaact	ataaacatgc	cactgatgtg	actagtaaga	agtgggaagac	tgacgcttta	540
tatagccttg	gagtgttatt	ctacaataat	ggagccgatg	ttctacggaa	agcaactcct	600
ttagctagtt	cgaacaaaga	aaaatatgct	tctgaaaaag	caaaggcgga	tgccgctttc	660
aagaaagctg	ttgactatct	gggagaggca	gttactttat	caccaaatag	aactgaaatc	720
aaacagatgc	aagatcaggt	aaaagcgatg	attaagtaa			759

<210> 419  
 <211> 369  
 <212> DNA  
 <213> B.fragilis

<400> 419						
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caaattagta	aaattttgaa	tggaagaagta	caaattagca	tttggcagat	ttcaaatttt	180
gcaactaatc	ttggaatgga	gataatagac	gtattttacat	atcctaataa	atatgtaaaa	240
gcagaagaca	ggaatgataa	taaagaacct	attgaggcag	ttctccaaat	taaactcaga	300
aaagataaaa	aagatcaagt	actaaagttg	atatttgggg	aacataattt	agaaatatta	360
aacaaataa						369

<210> 420  
 <211> 1077  
 <212> DNA  
 <213> B.fragilis

<400> 420						
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aactatctct	ctgctgctgc	acacattaac	atgtggagca	aacgtaaacc	ggtgaaaaga	180
aatatcatgt	ttaatacggg	ggacccgaac	tggttccgtg	ccgattccgg	aaactacggt	240
atcaatgtcc	cccgtgcagc	ggatattgct	ctactgaccg	gaacttacac	ctatgatata	300
cctgttcagg	gatcgtacaa	cctgcgtgct	ggtgattttg	ccggatacaa	tccggaagct	360
accgtaccat	tcactaccat	gcttccctcc	ggacttatcc	ttgcttccgg	cagtgccact	420
gttgtgaagt	tgatgctgaa	atcacttgat	tcaacataca	atgttgctcc	ggccgatata	480
ttccctctca	attcatattt	gggatgtgct	gtcacatacg	gaaacccggac	gcttattaaa	540
acgctttcgg	ttacaatttt	caatggaggg	gtgacactga	acatatccga	ttgcgagctc	600
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gctgcagccg	ttgatattgt	caccccgcac	gccgatgttt	actcgttcgg	catccttgga	780
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agtctctttc	aagagggccg	cttaataagc	agactggaca	ataattacta	tttaaagtct	900

gtaaaagtcg	ttgcgacccg	tgcaagtgac	ggtgttactg	ttgccgagaa	agcacaaagc	960
ataacatctt	ccactacacc	gacacgctta	ggaaacgact	ggatggcagg	tgagtcgctc	1020
aacttcagaa	caccggtctc	taggtcttca	ccgggggcgg	gaggcgagca	cgctcgtc	1077

&lt;210&gt; 421

&lt;211&gt; 252

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 421

accctcggaa	ataccggatt	tactgaaagg	cagtttctaa	acaattcttt	ttttaattta	60
tcaaaactaca	aattaaaagt	tatgagtaga	cgtagacaat	tagagcatga	agtgtcttta	120
gctcaggaaa	gaataaaaaa	agctcccaaa	gatactccta	aagaaatfff	gaagacgtgg	180
gaacaagagt	tagtcgactt	ggaattagaa	ctcaataatc	tggttgacga	cgaagaagac	240
aacaatgaat	ga					252

&lt;210&gt; 422

&lt;211&gt; 996

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 422

aatagactga	aaaacatatt	gtccattgca	caatttcacc	aaatctgtgc	tatgatattg	60
caaaaatata	taactttgca	cccgcgaatt	aaattaaaaa	acaaaaatat	gaaagcattt	120
gtattccccg	gtcaagggtg	ccaatttgta	ggtatgggta	aggacctgta	tgaaacttca	180
gcttttagcaa	aagaattggt	tgaaaaagca	aatgatatac	tgggatatac	cattacagat	240
attatgttca	acggtacgga	cgaagatctt	cgtcagacca	aggttactca	gcctgctgta	300
ttcctccact	ctgttatttc	tgcactttgc	atgggtgatg	acttcaaacc	tgaaatgact	360
gccggacact	cactgggtga	gttttttgca	ttggttgctg	ccggcgctct	gtcttttgaa	420
gacggcttaa	aattgggtta	tgcacgtgct	atggctatgc	agaaagcttg	tgaggcaact	480
ccttctacaa	tggtgcttat	tatagcttta	ccggatgaga	aagtagaaga	aatctgtgct	540
tctgttaccg	ctgaaggaga	agttttgtga	cctgcccaat	acaactgtcc	gggacagatt	600
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gctaagcgtg	cgcttcggtt	gaaagtaggc	ggtgcattcc	attctcctct	gatggatcct	720
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ggtgctaccg	acttcacaga	atgtggaccg	ggtgcccgtat	tgcaggggatt	gatcaagaag	960
atcgactcta	cagtttcggc	tcacggaata	gcataa			996

&lt;210&gt; 423

&lt;211&gt; 474

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 423

tgcattatga	agaatttaga	aatcctccct	ctctctgccg	agagtaaaaa	gcgtattgaa	60
gagttcgcaa	ggcagtatca	gcgatatgcc	catatcgcta	ttgagattgt	gtcctattca	120
gaaggccggc	tgattgtccg	tgccgagcaa	aaggacctgg	ttaatgataa	gttcctttca	180
aagaaagaac	tgacagaacg	tgtccggggac	atgttcaaag	atgaaattcc	ggaagactgg	240
aaacttactg	tttctgccgt	aaacttcgac	cgtaaggata	ttgatgggat	cactctcgac	300
tggtatcaaga	aacggatgga	acggcttgga	ttaaagaata	aacatttgag	caactacacc	360
ggaattgaca	aatgtaccgt	ttcttccatc	ctttccggag	acaaggagtt	gaccaaattg	420
cacaaagtag	ctctatacta	ttttttcaag	tattatgaag	tagccaattt	ttag	474

&lt;210&gt; 424

&lt;211&gt; 336

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 424

cataccatga	acctatcttc	ttttaaactg	accaatatta	acgaattgat	atccgtatac	60
aaagagaatc	oggagcgctt	taatcgcttt	tataacgcag	tgtacctgct	gctggatggc	120
attccggaat	gcggaagtat	tcgtgtaatg	gatactgtg	aggcgctctc	ctatgacttg	180
tttataaagt	gtgcatgttg	gattattcag	gaagagacgg	aacagaaaga	gttgacggat	240
gcattacttg	agttttcgga	tgattatata	attattcgcc	ggtgcgcgaa	gttcgtaaaa	300
tccaaatcct	gggttcattt	ctactcacga	cgatag			336

&lt;210&gt; 425

&lt;211&gt; 1320

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 425

aagaacatga	aaattgcaat	tgtcggaacc	ggatacgtag	gtttggtcac	aggaacctgt	60
tttgcggaata	ttggcggtga	tgttacttgt	gttgacacca	acagcgaaaa	aatagaggcg	120
cttaaaaagg	ggattatccc	catttatgaa	aatggattgg	aagaaatggt	catccgcaat	180
accaaagccg	gtcgactaaa	atttacgact	tcactggaaa	gttgccctgga	tgatgtagaa	240
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aaaagtaccg	tacctgtagg	tacagcatgc	aaagttcgta	atgctattca	ggaagaatta	420
gacaaacggg	gtgccaaaat	agaatttgat	gtagcttcca	atcctgagtt	tctgaaagag	480
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cgtgcagaaa	aattaatgac	taagctatat	aagccattca	tgctaaataa	tttccgcgtg	600
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actcgtatca	gtttcatgaa	cgacatcgct	aatctgtgtg	agttagtagg	agctgatgta	720
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gcagcaaatg	aatgtaaaag	acgaatcggc	gaaaccatat	actatgcacg	cgacatgtat	1140
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&lt;210&gt; 426

&lt;211&gt; 501

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 426

aacaaaatga	aaaatgtatc	gagcgcaaaa	agcgagaggg	ctaaagccgt	agtgttaagt	60
aatgtagcta	ataagaagaa	tgaaacagcc	cctctaattg	tgctgccatc	ccttccaacc	120
gagaaagaag	aaacgaaaga	acagggtttcg	gccaaagtgg	aaactcccgt	tcaaacttcc	180
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cggaacagc	ttgaaagctt	tactatctca	catgataaaa	ataatgccca	acttactttg	360
gtagacgcaa	aagggctttc	catttctaca	agtaatcccg	ttgcaattgg	taagttgtta	420
tctgattgga	tgttagattt	aaataatcac	ttggcgaaaa	ccgaagaaga	aattcgttca	480
gaattggaac	ggctaaatta	a				501

&lt;210&gt; 427

&lt;211&gt; 249

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 427

aaagaaatga	atagtgtatg	taataaaaatt	ctggatgcta	ttaagagaat	ggcagcagat	60
gacaataaag	gtttaagaat	gaccactacg	atagtcgatg	ttaaagatga	tccgctcggc	120
tcaatcggtg	gctttgggac	tgaaaaagtt	tgccgagatg	atgcatttgc	ccaaacaatg	180
ggtttaccag	gtaagtatat	ggcatgtgcc	ttttttatag	atagagaaga	actaaagaaa	240
taccttttaa						249

&lt;210&gt; 428

&lt;211&gt; 525

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 428

ctaaaaccga	attacatgag	gcatgtaaaa	tggatttttg	ttgtattact	aattagttcc	60
ttgactttct	tcgtagaaaa	agacaaaccc	accggagggt	tgaatgtggg	tgacgtagcc	120
cctgatttca	caatcgaatc	tacgtcagat	gcacagtaca	attttgattt	gaccgactta	180
aaaggtaaat	atgtgctgct	tagtttttgg	gcaagttacg	atgcacagtc	ccggatgcaa	240
aacgcaagtt	tgagcaatgc	gcttcgatca	acttctcaag	atgtggaaat	ggtttccggt	300
tcatttgacg	aataccagtc	ggttatttcag	gaaaccattc	gtaaggacca	aatagttacg	360
cccacctgtt	tcgcggaaac	taaaggcgaa	agctccggct	tgtttaagaa	ataccgttta	420
aaccgggggt	tcactaacta	tttattggat	ggaaatgggt	tgattatagc	caaaaacatc	480
tctgctgcag	aactttctgc	ttatgcaaac	aaaatcaaag	gttga		525

&lt;210&gt; 429

&lt;211&gt; 564

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 429

tatcatcaga	aacgaatgaa	ttatatacaa	acagaaatag	atgggtgtgtg	gatcattgaa	60
ccgaagattt	ttttcgatcc	gcgcggatat	ttcatggaag	cattcaagca	acaggaattt	120
gatgctacta	tcggacagat	aaattttata	caagataatg	aatctcaatc	ttcattcggc	180
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aagcatatca	gcgtattgtt	aagcgacgaa	aataaacgcc	agctttttat	tccccgtggg	360
tttgcccatg	gatttttagt	gaaaagcgaa	atagctatct	ttacttataa	ggtagataat	420
atatatgccc	cccaatctga	ggcttctatc	ctatacaatg	atccggcatt	ggctatcgac	480
tggcctattg	ccgattctca	acttgtcatg	tcagagaaag	acaagcaggc	aggagccttt	540
cgggaagcag	aatattttga	atag				564

&lt;210&gt; 430

&lt;211&gt; 621

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 430

ggagataaga	atatggaatc	aaagtttcat	gaactgaaaa	acaggctgct	gaagaatatt	60
gaccagacgt	ccgaatctag	gcttttatatg	gatatacagc	tggctcaaaa	ctgcgaaact	120
cttatgtcta	ttatcaaaaa	ggatatcgga	tatctggcaa	aggaagggtat	cctttccccc	180
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cttgagagag	tctctgcaat	aacctgtgaa	cgttcgatgg	tcattgcggc	aggaagctcc	420
actatccttg	ccgagggaga	ttccgttgtt	ggagtttcag	gctatcatgc	ctctgtaaag	480
gcgtcagact	atgctactgt	cgtaaatatg	aactgtccca	acattgacct	tcgtgacaac	540
acccgccttt	ggcttccctg	acgcggaagc	tttgcagccc	gaaaaaattg	tgatataatt	600
attaaaaaca	aggaggaata	a				621

&lt;210&gt; 431



<211> 225  
 <212> DNA  
 <213> B.fragilis

<400> 431  
 ccaaaaaaga aggaaggaaa acctatgttt aaagatataa tcgaattaga taaacaagtc 60  
 gtagaccgga tcgtagataa ggtccacgaa aacaatttag aaattgagat ggaaatggga 120  
 gttgtaaagg acggtatggg taaagtcctt ttcctctata aagatccgga acttctgcag 180  
 agcgtgataa acgaatccgt tactgaagag tacgatctcc cataa 225

<210> 432  
 <211> 687  
 <212> DNA  
 <213> B.fragilis

<400> 432  
 acagaaaaga atgacacaat gagtaatata cctgttatct ttcgtttttt aaaggacctt 60  
 actgcaaca acaatcgca gtggtttaat gaacatcggg aagaatatga aatagcccg 120  
 ttagaatttg aaaatttcct ttcacagta attgccgta tttcactttt tgatgaaagt 180  
 attcgtggta ttcaacctaa agaatgcact tatcgcatth accgggatac ccgcttttct 240  
 tccgataaaa ctccctataa gaatcatttt gggggatata ttaacgcaa agggaaaaaa 300  
 tcctatcaca gtgggtacta tatacatata caacctgagg gttgcatgct ggctggagga 360  
 agtttatgct tgccttctaa tattttgaaa gcacttcgcc agtctatcta tgataacatt 420  
 gatgaatate gttcgatagt ggaggatcct gaatttcagc aattcttccc cattgtagg 480  
 gaagatttcc tgaaaacagc tcccaaagga ttcccgaaag attttaaata cattgattat 540  
 ttgaaaccta aagaattcac ttgtgcttat tccgtcccg acagtttctt ttgactccg 600  
 gatattctgg acaaaataga agaagtgttc cggcaattta aacgttttgc cgactttacg 660  
 aatttcacta tcgatgattt tgagtaa 687

<210> 433  
 <211> 342  
 <212> DNA  
 <213> B.fragilis

<400> 433  
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 ttaaagcaat atgcatagaa aatagaagga ggatatatt gtcatatctt tcccttcagc 120  
 gaagaaatag agtctgtaga atggtttccg ggtgtcatac tactgactcc acaagaagaa 180  
 tcagatataa atactttgtt taactttact aatatagaaa acaaaagtat ttatattccg 240  
 aaagttacca tagatatgaa atggcgggct tatttattat atcctttcaa ttttggtaca 300  
 atgcagcctg tcgccgaaac tctgcacaga caattgcagt ag 342

<210> 434  
 <211> 1074  
 <212> DNA  
 <213> B.fragilis

<400> 434  
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 caggtgtttc acgctccatt tatcagcacg aatcctcatt ttgaacttta caaaatagta 120  
 gagcgtagta aggaactctc taaagaacga tatccgcaag catcaatagt acgtagtttt 180  
 aaggagttga cagaagatcc tgaaatagat cttatagtcg ttaacactcc ggacaatata 240  
 cattatgaat atgccggaat ggctcttgaa gccgggaaaa atgtagtagt tgagaaaccg 300  
 tttacttcta ccaccaaaca ggggtgaagaa ttaatagctt tggctaagaa aaaagggttg 360  
 atgctaagtg tatatcagaa tcgcagatgg gatgcagatt tcttaacggg acgtgatatt 420  
 cttgccaaat ccttattagg acgtttggta gaatatgaat ctacatttgc tcgttatcgt 480  
 aattttataa agcctaatac ttggaaagag accggagagt ccggtgggtg attaacctat 540  
 aatttgggtt cacatctgat cgatcaggct attcagcttt ttgggatgcc tgaagctgtt 600  
 tttgcagatt tgggtatcct gcgtgaagga ggaaaagttg atgattattt tataattcat 660

ctgttacatc	cttcgttggc	accaaatgtg	aaaatcacct	tgaaagcaag	ttacctgatg	720
cgagaagccg	aaccacgttt	tgctttacat	ggaacactag	gttcgtatgt	taaatatgga	780
gtcgataaac	aggaagctgc	tctattagct	ggtgaaatac	ctgaacgtcc	gaattgggga	840
gaagaatcag	agcaggaatg	gggattatta	catacagaaa	taaattggaaa	agaaatctgc	900
cgaaaatata	cgggcatagc	cggaaattat	ggtggccttt	atcagaatat	ttatgaacat	960
ttatgtttag	gacaaccatt	ggaaacacat	gcacaagata	ttttgaatgt	gatacgaata	1020
atcgaagcgg	cttatcaaag	ccatcgagat	aataaaattg	tcaatcttaa	atag	1074

<210> 435  
 <211> 546  
 <212> DNA  
 <213> B.fragilis

<400> 435						
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atgggttataa	tcgctatatc	aattttattt	ataaagataa	tatgtactcg	ttacaaccaa	120
aactcagatc	agatactccc	tcctcccaat	atgcactcta	ttcaggagag	tgcatccatg	180
catttggttaa	gaataggaca	gttgcttcac	ccaggacctg	gatattgtta	ttacgaatta	240
ggaggaatga	gatatcaagc	gctaacagga	tttgacattg	gcgtacacga	aggatatgca	300
aaagcagagc	ttaataatcg	gtatgataaa	tatgcggttg	gagtctacag	agaaggagat	360
cacaaattaa	tgggatacgt	tcgaagagaa	caaaatagag	agctttatga	atztatgtta	420
aataataatt	gtatagctaa	agctaaattt	cgaatatgga	tacaccaagg	agaaatctat	480
ggagcagctt	acataaaaaga	agaatggaaa	tcttcattag	gctttaagtc	tgacattaaa	540
atntag						546

<210> 436  
 <211> 525  
 <212> DNA  
 <213> B.fragilis

<400> 436						
aaactaattg	aaatgttgaa	cgaaaaaaga	actcaaagaa	ttatgaaaag	taaattcctg	60
atatttttgt	cggcagtagc	catgctgtta	ttatttagca	attgtggaag	caaaacaaca	120
agtaatgata	aggccactac	cgaagtgaag	gacactgtca	cttcaaaaga	agaagctgta	180
ccggatagtg	tatctatctt	gggagaccag	gtatatgata	tagtgaacac	agctcccga	240
tttcggggag	gaatgaaagc	gtgtctcgag	tttctctaca	agaatattac	ttatccggca	300
caagctattg	aaagtaagca	ggaaggtcag	gttgtgatac	agtttggtgt	tacaaaaaat	360
ggtaaaatta	ttgatccgaa	agttgtgaaa	agtgtatctc	catcacttga	cgcagaggcc	420
atacggatca	taaattttaat	gcctgactgg	actccgggaa	aacaaaaaaa	tggtcaggaa	480
gtgaattcac	ggtttacact	tccagtcogt	tttacactta	aatga		525

<210> 437  
 <211> 438  
 <212> DNA  
 <213> B.fragilis

<400> 437						
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tgtaaaaaat	tgctggctat	gatttttatg	tcagaggcga	cgcttaaagg	caaattgaat	120
ggtacaagaa	cgctagatct	taatacaata	atatccattg	caatacggct	tgaggatctt	180
tctgttgaat	ggcttcttcg	tggcgaagg	gatatgttta	aatctagtto	tggtgtttct	240
atztatctct	catcagtacc	tatatattaca	ggggagacct	cgtttatata	cagtatgtat	300
aaagaagaaa	gagaagaggt	taaaacttta	ttaaagcaaa	atgggtatatt	ggaagagcgt	360
attcgtcagc	tcgaggatga	caatagatta	ttaaagagac	aagttgtaac	agaattaaac	420
ctaaatacta	aactgtag					438

<210> 438  
 <211> 369  
 <212> DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 438

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tataaagaat	tatctgggat	gattcttatg	tcggaaacgt	cactttgtag	aaagttgact	120
ggttcaagga	gtcttgattt	gcatacatta	atatctatag	tagcatgctt	gccagatgtt	180
tcttccgagt	ggcttcttag	aggcaaaggt	agggtgtgta	attcttcttc	gagcattagt	240
tccgatgtct	tagtagaaga	acttaaaatg	gaaaataacc	tattaaaacg	aaaaattcaa	300
gttcttcaag	aattgttgga	gtttaagatg	gaaaaaatca	gagctgagaa	tggtaacata	360
aaaaaatga						369

&lt;210&gt; 439

&lt;211&gt; 912

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 439

cagaaaagtg	accattatgt	ttcttctttg	ttatatagtg	ttttcattta	tcatatggta	60
agaaaaagtt	caataaataa	atacgagtta	gacgtcagaa	aggggttaca	agaactcttt	120
gacaaatgtc	gacacaatat	gaagcattct	ggggatttat	tattatgtca	acaaaatggc	180
ttcattgact	acaaaggctg	cccatgtgtt	ggattaggtg	atgaagggct	taattgtatg	240
caacaagtca	attttatttc	gtttaatgga	ataggaaata	ttactgatga	caatgattat	300
tataaaaaag	aaggaaataa	ctttttttat	ggtaattctg	agtttgaagc	tgatattatg	360
agacaacata	ttacctatat	gaatatatgg	gaaaattctt	actttttacg	ggtatttact	420
caagtggtaa	acgtgttaaa	tggtttaaat	tataattgga	atttgacatt	caagaatctt	480
aagcccaatc	aaaaaagcga	acaaataaga	gaaggataaa	taaaattatt	agatctatcc	540
cccaacttcc	aacgtatact	taaagatgca	tatgtcggac	aaatacgaaa	tgctgtcgct	600
catacacaat	accattgtat	tcaaggagga	atcttatatg	acaactactc	accatcaagt	660
aaatattcta	tcttgcaagg	tctttcttat	gaagaatggg	agaagaaata	tgtctactct	720
tttttcatat	ttataggtat	attccaaatg	ttaaaacaaa	tcacaaacga	attttatctt	780
ccttgttccc	aattaacctt	tgcaaaggga	gttccaattc	aaataccact	ttcggacaac	840
aaaggatatg	cagagactta	tttatatccg	aatcaaaaag	gagatatattg	gagatttaca	900
agaataattt	ga					912

&lt;210&gt; 440

&lt;211&gt; 213

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 440

gcatatcgcc	taaacgagaa	acaattgtcc	atgtatatcc	atcatttgat	ggtaaaggac	60
cacaagagaa	aattattatta	tctatcatat	gaaaagagat	tcatatttat	aattaattta	120
gtttctgcta	aattacaaaa	tagtaatgga	ttaaaaaaga	aaaagcagag	taatagctct	180
gctttaatat	gtttctacag	aaatatggcc	taa			213

&lt;210&gt; 441

&lt;211&gt; 246

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 441

cgggtggcgag	aaacttctgt	taataatttc	tcttctttgc	agtcttggtt	tataaatgta	60
aatgagatca	aggtacgttt	tgggggtgct	cccggtttag	tgatgaccaa	gagctggcgg	120
gatggataca	ggccttggtga	agatgcgatg	tctttaaaag	aatcacttgc	atccatcggt	180
atgactactg	taaaagtacc	atttggcgaa	agtaaattcg	atactccctt	cagcaactct	240
tcataa						246

&lt;210&gt; 442

&lt;211&gt; 210

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 442

agtaagcttt	ttgcccgttt	gcttacttta	attcatctaa	aagtcggttag	ctccaccct	60
ttcagcttgc	ttctgaaagg	ggtgaaacta	ccgactatgg	tttgctacgc	ttccggttta	120
ccggattctc	aagaagtgca	tgtagccaa	aaggatgtat	atgctgcatt	cggtcggtat	180
ttacttcgat	ttgctttcaa	tgtggaatga				210

&lt;210&gt; 443

&lt;211&gt; 216

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 443

tataaaatgg	aattagagac	aattggagaa	aacgccggca	aagtatggcg	caccctgaat	60
gaaatgaggg	gagaaatata	tattcaggaa	cttagtcgga	aaattaacct	cagcgccgaa	120
gacgttgcac	ttgcggtagg	ttggttagcc	agagaaaata	atatttttat	tcagagacac	180
aactacctgt	tatacgtcag	tcatgatgct	ttctga			216

&lt;210&gt; 444

&lt;211&gt; 807

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 444

atgaaaatgg	aaaatagtgt	attaaccgga	aaaccttata	acatcgkata	tgccttgagc	60
ggaggcttta	ttaaaggctt	tgcccatttg	ggagttattc	aggctttatt	ggaacatgat	120
attaaaccgg	atattatctc	aggagtcagt	gccggggctt	tggccggagt	attttatgcc	180
gatggcaacg	aaccctatag	ggttttggac	tacttttcog	gacataaatt	tcaggacttg	240
acaaaacttg	taattcctaa	agtaggctta	tttgctttgg	gagagtttat	tgattttttg	300
aagtcaaate	ttaaagctca	gaagctggag	gatttaaaac	ttcctcttat	cattactgcc	360
actgatctgg	atcatggtcg	cagcatgcat	tttcataaag	ggaatatagc	tgaacgggta	420
gctgcttcat	gctgtatgcc	ggtgttattt	acacctgtaa	aaataggaaa	tacacattat	480
gtggacggag	gacttctgat	gaatttacct	gtatctacca	tcggaaatga	atgtgaaaaa	540
gtggtagcag	tgaatgtcag	cccgttgatg	gcagaaaaat	ataaaatgaa	catcgttagc	600
attgccatgc	gttcttatca	ttttatgttt	cgtgccaaata	cgtttcogga	gcgagacaat	660
tgcgatttac	taattgaacc	ctacaaccta	gagggttata	gcaataactga	acttgaaaag	720
gccgaagaga	tttttgaaca	aggctataac	actgcttctg	aggttctgga	ccaactaatt	780
gaagagaaag	gaaagatatg	gaaataa				807

&lt;210&gt; 445

&lt;211&gt; 1221

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 445

agggacgcgg	acagttttaca	actttttttgc	caacactttt	gttataattg	gataataaac	60
ctatttttate	caatgaaagt	acacgaatat	caggcaaagg	agattttctc	cacttacgga	120
atacctgtcg	agaggcatgc	tttatgccat	acggcagatg	gggctgtggc	tgcttatcac	180
cgaatggggg	taaaccgggt	agccataaaa	gcccaagtgc	tgaccggcgg	gcggggaaaa	240
gccggcggag	taaagttggc	caataatgat	agagatgtct	accaatacgc	tcaaactatt	300
ttggagatga	ctataaaagg	ttatcccgtc	accaagattc	ttcttagtga	ggctgtcaac	360
attgcagccg	aatattacat	cagtttttacg	atagaccgta	atacgcgctc	tgtcacgctg	420
attatgagtg	cggccgggtg	tatggacatc	gaggaagtag	cccgccaatc	tcgggaaaag	480
ataatacgtt	gcagcattga	tcctctaate	ggagttcccc	attatctggc	acataagttt	540
gctttctctc	tcctttgaaca	agctgagcaa	gctaaccgga	tggcaactat	tattcaagat	600
ctttacaag	cattttattga	aaaagatgct	tcacttgctg	aaattaatcc	attggtaact	660
acctctgttg	ggacattatt	ggctattgat	gccaaaatgg	tttttgatga	taatgcactt	720

tatcgtcacc	eggacttaca	gaagttatca	gagcccacag	aagatgagaa	gttgggaagcg	780
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aatggagccg	gtctggctat	gacaactatg	gatatgatca	agctttatgg	aggaaatccg	900
gctaatttcc	ttgatattgg	cggtagttca	aatcctgtca	aggtgataga	agctatgaga	960
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cgatgtgacg	atgtagccat	cggactctta	caggcggttg	agcagataca	aacggatatt	1080
cctattattg	tgcggcttac	aggcactaat	ggaaatatgg	gacgtgaatt	attgcgtaag	1140
aataaccgtt	ttcaagtggc	ccagacaatg	gaagaagcta	ctaaaatggc	tatagaatca	1200
ttaaagaaag	aatcgatatg	a				1221

&lt;210&gt; 446

&lt;211&gt; 1443

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 446

catcaaagtt	tattttcta	gaagaagaaa	caacctgagc	cccaattatt	tcaaaaagga	60
tatgaaactt	atgcagtcac	caaaggcgga	aaaggaatca	taaagttcag	tgataatagc	120
gatatacaca	ctgaccggga	gacctctacc	gttgaagtag	ttcccaaagg	gaaagaggct	180
ccaattaagt	ttgttcccag	agggcggaat	aacaacatga	tgtatgacat	tatgaagaag	240
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gatagtgtcc	tcgatatatc	taaataccgg	gataaggaaa	cccgaataat	catcaaagaa	360
gaagtcttgc	ccgaagaata	cccggatata	ttcgatttta	tagaaaacaa	cgacatacca	420
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tga						1443

&lt;210&gt; 447

&lt;211&gt; 645

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 447

tcaaacatac	tgggaggatt	aacgatggga	tattataaaa	gattaagtag	ctatcgtgct	60
gaagtcaaac	gctataacgc	ctcccgcgga	aaagccacac	agttgactaa	tgccccggca	120
tccggactga	tccgccttga	aaccgtctca	gaaaccgaac	gcttttcaat	ggctcaggat	180
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<210> 448  
 <211> 2202  
 <212> DNA  
 <213> B.fragilis

<400> 448

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atcaataacg	aacccgtcct	tacttccgtt	cccgaagggt	atgccatcag	cccattttta	660
aaagtatctt	ggataactca	ttttatattc	gtccggtacg	gttatacggg	ccttgaaaat	720
ccattctcaa	cccaccgtca	actctcccgt	ctggtagttc	tgaacaacat	ggccgacagc	780
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acctattctt	tatgggatgg	attttattat	gtccggaaca	atctgaccgg	agttcgtgaa	1200
gcccgcagct	ctgacttctt	ccctgggat	aaaggggcaa	acatcagtta	tatggagata	1260
tcatctattg	atgaatgcct	gccgatgaaa	ggttcttacc	ccgatgacca	accggtttgt	1320
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 <212> DNA  
 <213> B.fragilis

<400> 449

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aacaatcaga	cgttagtttt	cttcttttta	togatgaaat	cagtgtattt	tgcaaaaaata	180
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<210> 450  
 <211> 450  
 <212> DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 450

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cgacaactca	aaaacaaaacg	aaaattgtaa				450

&lt;210&gt; 451

&lt;211&gt; 240

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 451

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&lt;210&gt; 452

&lt;211&gt; 666

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 452

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&lt;210&gt; 453

&lt;211&gt; 1005

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 453

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&lt;210&gt; 454

&lt;211&gt; 1407

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 454

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&lt;210&gt; 455

&lt;211&gt; 192

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 455

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gacttttaaat	ag					192

&lt;210&gt; 456

&lt;211&gt; 789

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 456

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aaatgttag						789

&lt;210&gt; 457

&lt;211&gt; 366

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 457

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tcctga						366

&lt;210&gt; 458

&lt;211&gt; 903

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 458

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&lt;210&gt; 459

&lt;211&gt; 1761

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 459

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&lt;210&gt; 460

&lt;211&gt; 195

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 460

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agaagtgttt	actga					195

&lt;210&gt; 461

&lt;211&gt; 777

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 461

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&lt;210&gt; 462

&lt;211&gt; 1419

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 462

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&lt;210&gt; 463

&lt;211&gt; 774

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 463

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caagcggcca	ttccggatag	cggaaactgg	atcagccatc	atcttctgac	atcagacggg	180
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&lt;210&gt; 464

&lt;211&gt; 393

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 464

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cctgagatgc	cgataactct	tgtttcggta	aatgaatata	aaagtcgatt	gcagcaaagt	300
gaggtaagat	tggaagctct	aagggctcag	gtggattata	aagataaact	actagccgga	360
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<210> 465  
 <211> 597  
 <212> DNA  
 <213> B.fragilis

<400> 465						
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catgcttcta	cttttgcata	tcgggtatgat	gattttttgc	ataccttcc	gattgttgct	180
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 <212> DNA  
 <213> B.fragilis

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<210> 467  
 <211> 420  
 <212> DNA  
 <213> B.fragilis

&lt;400&gt; 467

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&lt;210&gt; 468

&lt;211&gt; 1293

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 468

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&lt;210&gt; 469

&lt;211&gt; 396

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 469

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&lt;210&gt; 470

&lt;211&gt; 1296

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 470

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&lt;210&gt; 471

&lt;211&gt; 348

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 471

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&lt;210&gt; 472

&lt;211&gt; 768

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 472

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&lt;210&gt; 473

&lt;211&gt; 2322

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 473

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&lt;211&gt; 267

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 474

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&lt;210&gt; 475

&lt;211&gt; 1530

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 475

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&lt;210&gt; 476

&lt;211&gt; 591

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 476

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&lt;211&gt; 204

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 477

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&lt;210&gt; 478

&lt;211&gt; 960



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&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 482

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	gaggttcttt
	atatgcattg

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&lt;211&gt; 4932

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 486

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&lt;210&gt; 487

&lt;211&gt; 393

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 487

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 <212> DNA  
 <213> B.fragilis

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 <213> B.fragilis

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 aaggtagaat ag 1032

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 <212> DNA  
 <213> B.fragilis

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<210> 491  
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&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 491

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&lt;210&gt; 492

&lt;211&gt; 1242

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 492

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&lt;210&gt; 493

&lt;211&gt; 987

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 493

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987

&lt;210&gt; 494

&lt;211&gt; 312

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 494

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ataatattat	ag					312

&lt;210&gt; 495

&lt;211&gt; 615

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 495

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&lt;210&gt; 496

&lt;211&gt; 195

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 496

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&lt;210&gt; 497

&lt;211&gt; 951

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 497

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&lt;210&gt; 498

&lt;211&gt; 627

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 498

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&lt;210&gt; 499

&lt;211&gt; 2049

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 499

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&lt;210&gt; 504

&lt;211&gt; 228

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 504

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&lt;210&gt; 505

&lt;211&gt; 438

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 505

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&lt;210&gt; 506

&lt;211&gt; 636

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 506

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&lt;210&gt; 518

&lt;211&gt; 255

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

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&lt;210&gt; 519

&lt;211&gt; 315

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 519

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&lt;210&gt; 520

&lt;211&gt; 1617

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

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gccataaccg	attctgccgt	tagttttatc	cgtcaacatc	cggttgatga	acctatgttt	660
atgtattttg	ctcactatgc	tcctcatctg	ccccttcagg	ctccaaaaga	gagagtagag	720
gcttgcggg	aaaagtataa	agcgggat	gacgtattgc	gtaaacaacg	cttcgaacgc	780
atccgtcgca	atggctta	cgacattgaa	agagaacttc	cgggtatttga	aaaagagttt	840
ggaggaaaac	gtccgcgatg	gaatagtctt	actccgcagc	agcaggaacg	atggattacg	900
gaaatggcta	cttatgctgc	catgattgaa	attatggacg	atgggtatcgg	agaagtaata	960
aaagccacta	aggaaaaagg	tatatattgat	aataccatat	ttttattctt	aagtgataac	1020
ggtgctacca	atgaaggcga	tatgatcagc	caattgcgtg	cagattttgag	taatactcca	1080
tttcgcagtt	ataagcaatg	gtgttttcag	ggaggtagca	gtgctcctct	gattatcatg	1140
tacggaggcg	gacaacctga	tggaaaaaag	gaagcgggtc	gtcacgaatt	tacacatatt	1200
atcgatcttt	ttcccaactg	cctggatatg	gcttctattg	aatatccccg	ggaatttcga	1260
aatcatgcca	ttgatgctcc	tggaggcaga	acgattcttc	cggcgttgaa	aggaaagaaa	1320
ttatcgaaaa	gagatttggt	ttttgaacat	caaacctcct	gtggcattat	atctggagac	1380
tggaagttgg	ttcgggctaa	tggtaagcag	ccgtgggagc	tgtttaacct	gttacaagat	1440
ccgtttgaac	agaacgattt	atctgcccg	taccgggata	gagtgaaaa	attggaaaaa	1500
aagtggaaac	aatgggcaga	aaaacaacag	gtatttcctt	ttgaatacag	accatggact	1560
aagcgtatca	attattataa	atccctgtat	cccgatcaat	cgggaaagga	tttatga	1617

&lt;210&gt; 521

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 521

aagaagagaa	aaaataagaa	tataatgaat	cgagaagaat	gggtgaataa	gggattcgtt	60
gacgagcccg	tagacaaaag	cattgatctg	aaagcagcca	tcaatgaact	gaaaaaagaa	120
aagaatgcag	taatcttggg	acactattac	cagaaaggcg	aaatacagga	tattgccgac	180
tacattgggg	acagtctggc	tttggctcaa	attgcagcca	aaaccgatgc	ggatattctt	240
gtgatgtgtg	gcgttcattt	tatgggagaa	accgcaaagg	tgttttgtcc	ggacaagaag	300
gtgctggtgc	ccgacttgaa	tgcaggatgt	tcgttggcag	acagctgtcc	ggcagataag	360
tttgctgagt	ttgtgaaagc	acatccggga	tatacgggtga	tctcgtatgt	gaatacaacg	420
gcagctgtga	aagcggtgac	agatgtagta	gtgacttcga	ctaattgcaa	acagatcgtt	480
gaaagttttc	cgaaagatga	aaagattatt	ttcggcccg	atcgtaacct	gggaaattat	540
atcaattcga	ttacaggacg	tgaatgctg	ttgtgggacg	gagcttgcca	tgtgcattga	600
cagttttcgg	tggagaagat	tgtagaactg	aaagcacaat	atcccgatgc	ggtagtattg	660
gcgcateccg	aatgtaagag	tgtggtatta	aagttggcgg	atatggtggg	atctacagcg	720
gctttattaa	aatatgcagt	gaacagtgc	aagcaacggt	tcattgtggc	cacggaggca	780
ggtatcttac	acgagatgca	gaaaaaatgc	cctcaaaaaa	cattcattcc	ggctcctcct	840
aacgatagta	cctgtggatg	caatgaatgt	aacttcatgc	ggctgaacac	gctggaaaag	900
ctctataatt	gccttaata	cgaattcccg	gaagtaactg	ttgaccggga	agttgccaga	960
gaggcggtaa	agccgattaa	acggatgctg	gagatttcag	ctaagttagg	cttataa	1017

&lt;210&gt; 522

&lt;211&gt; 1425

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 522

aacactatga	agaacaaatt	atatttttta	tttgcatttt	gtatttcagt	ccatgtttat	60
gctcaacagc	cctccaggga	gataccttta	aaatatggag	ctaccaatat	tggcaaacgt	120

caggatgatg	ctatgaagcg	gtttcgcaac	aatcgcttgg	gagagtttat	tcattgggga	180
ctgtatgcta	ttcccggtgg	cgaatggaaa	ggtaaagtat	ataatggggc	tgccgaatgg	240
ctgaaatcat	gggctaaagt	ccttgctgcc	gattggctgg	aattgatgaa	acaatggaat	300
cctgttaagt	tcgatgccag	acaatgggcc	cggatggcca	aagagatggg	agtgaataac	360
gttaagatta	cgacaaaaca	tcatgaaggt	ttctgtctct	ggcccagtca	atacagtcag	420
tataccgtag	cgcagacgcc	ttatagaaaa	gatatcttag	gtgaattggg	gaaagcctac	480
aatgatgaag	gtatcgatgt	acatttctat	ttttcggtga	tggattggag	tcattccggat	540
tatcgttatg	agattacatc	gaaagaagac	agcattgctt	tcagccgttt	tctgactttt	600
accgaccatc	agttgaagga	actggctacc	cgttatccga	cagtcaaaga	tttctggttt	660
gacggaactt	gggatgcaag	tatcaagaag	aacggttggg	ggacagctca	tgccgaacaa	720
atgctgaaag	aacttgtagc	gggagttacc	gttaatagcc	ggcttcgtgc	cgatgattat	780
ggtaagaggg	actttgacag	taatggccgt	cttatgggag	attatgagtc	gggatatgaa	840
cggcgtcttc	ccgatccggg	aaaagactta	caagtgacta	agtgggactg	ggaggcttgt	900
atgactgttc	ctgaaaatca	gtggggatag	cacaaagatt	ggtcgttgag	ctatgtttaa	960
accccgatag	aggtgatcga	tcgcattgtc	catgcggtgt	cgatgggagg	aaatatggta	1020
gtgaatttgc	gtcctcagcc	cgatggagat	ttccgttcgg	aagagaaaga	gttggcgatg	1080
gcattggggg	gctggatgaa	gaggtatggt	gaatgtatat	atggatgcga	ctatgccgga	1140
tgggataagc	aggactgggg	atactatacc	cgtaaggggc	aagaggata	catggttgta	1200
tttaatcgcc	cctattcggg	gcttctttaa	gtaaagatcc	ccaaaggtag	cgaaatagaa	1260
agagccgttt	tgccggatgg	acaggtggta	aaggtaactg	aaactgcccg	gaatgaatat	1320
aatgtggcca	tgccctcgca	agatccgggt	gagccgttta	taatcaaact	acaagttaag	1380
gaggcttccg	gagcagcaga	cggatatcgg	gacgcattaa	cgtaa		1425

&lt;210&gt; 523

&lt;211&gt; 915

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 523

cagcagccga	agagcaaggt	atcgatgtgc	ctacttatcg	ggaagttgct	aaaaaattca	60
tcaaacata	aagaaatcaa	tatgaacaac	cttcttttat	ctatcaactg	gaacccaaat	120
ccggaattat	ttaatctttt	cggcatctca	atccgttatt	acggactatt	gtgggctatc	180
ggaatattct	ttgcttacat	agtggtagac	tatcaatata	gtgataagaa	gatagacgaa	240
aagaagttcg	aaccgctttt	cttttactgt	tttttcggca	tcctgatcgg	ggcacgactg	300
ggacattgcc	tggtctatga	tccgggatag	tacctaaatc	atttttggga	aatgatactt	360
ccggttaaat	ttcttcgggg	aggtggatgg	aagttcacgg	gttatgaagg	actggccagt	420
catggaggta	ccctcgggct	gatcatttct	ctctggctct	attgccgcaa	aacgaaaatg	480
aattatatgg	atgtggtaga	tatgattgcc	gtagccactc	ctattacggc	atgtttcatt	540
cgcccttgcca	atctgatgaa	ttccgaaatc	ataggtaagg	taaccgatgt	atcctgggca	600
ttcgttttgc	aacgggtaga	catgcaacca	cggcatccgg	cacaacttta	tgaagcaatc	660
gcctattttt	tctcttctct	ggtaatgatg	ttcctctata	agaactatag	caaaaaacta	720
catcgggggg	tcttcttcgg	actttgcctg	acagctatct	tcactttccg	cttctttgta	780
gaattcctga	aagaaaaatca	ggtggatttc	gaaaaatagca	tggcactgaa	catgggtcaa	840
tggttaagca	tcccgcttcg	aattatcggc	atttacttta	tgtttttcta	cggaagaaaa	900
aagagtgtaa	aatga					915

&lt;210&gt; 524

&lt;211&gt; 735

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 524

catggcactg	aacatgggtc	aatgggttaag	catcccgttc	gtaattatcg	gcatttactt	60
tatgtttttt	tacggaaaga	aaaagagtgt	aaaatgaaac	atataattga	tattaaaacc	120
tgggaaagaa	aagaaaatta	tgaatttttc	cttgggtttc	agaatcccac	tatctccatt	180
acttcagaag	tagaatgttc	gggtgctaga	acacgtgcc	aaaccgccc	agaatccttc	240
ttcctgcact	acctttatgc	cgtgttcggt	gctgtcaatg	aaatcaaaga	gttccgattc	300
cgcattgatt	ctgaaggacg	ggtagtttat	ttcgatacag	tggatagct	gactcccatt	360
aaagtggcag	ataacggacg	tttttttaca	gtacgacttc	cctggtatcc	tgatttttaag	420

actttctaca	cagaagccaa	agccatcatt	agcggaatag	atccggataa	agatccttat	480
gaagcagaaa	agacaggagg	tagtgattta	ctggatgtag	tgctcctcag	cgctactccc	540
gatttatatt	tcacctcact	gacttgtagc	caggaacatc	gtcacgggtg	taattaccgg	600
ttaatgaatg	cgggttaaagc	cggtataaga	ggtggtgtat	tagtgatgcc	catcgctatg	660
accattcatt	atggatttat	agacggacat	cacttatctc	tgttttataa	aaaggtggaa	720
gagtttctta	aataa					735

&lt;210&gt; 525

&lt;211&gt; 1884

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 525

gcttataatg	aaaataaaac	aaagacagga	aaaaataaag	gagatacaga	agcggataga	60
aaattttataa	aaacaccggg	tatgaaatac	tttatattat	tggcatcggt	tcttttttta	120
gcgcaatctt	gttcgggtgc	gccctccatg	cgtgaatccg	cccgatcgta	cgactgggtt	180
gcaaacacta	atTTTTcctg	gcaatcaaaa	atagacagcg	cgatcagctc	ttatccgctt	240
ttattgcata	cgatcatatga	agctaaaggg	agcgtggggg	tcacgggtacc	ggttttttat	300
cgatatggata	aaaagcgggt	gggtgttgaa	gtgaggataa	agtataaaac	ggaaaactgc	360
aatgatctgt	gtttgaagct	gagcggcatt	ggtgaatgcg	ggaagggtcat	ttccgcgga	420
acgtttcgat	tgtctgccgc	cgaggcgtgg	acggtagccc	gccggagcgt	ggatatggct	480
tctccccgtg	tgctgggggt	ggctcttgaa	gcccgcgggg	agaagcccgg	gaaaaaggat	540
ttccggcgcg	atccttttag	atgggagaat	aattccttta	agcccgggga	atactctaaa	600
atatggattg	actccttgga	tatcttaatt	gatggaaaat	atgcggttga	actcccatcc	660
ttgaataacg	gcacggcggc	ttccgtccgg	gaatcggatg	tgatgccgcg	taacggcggc	720
gatcttaagt	ccctgccctt	ttccggtaaa	aggatactcg	ccatcgggga	gagcgtgcat	780
ggcaccggaa	cgatgaatga	catgggtggt	gaaataatca	agaacaggat	cgaacacgga	840
aaatgcaggc	tcgtcttggt	ggaaataccc	ctgaccttat	ctttccatat	caaccgggtat	900
ttggaggggg	acgagcgggt	caagccggac	agcatcgctt	cctattttga	caaggtctta	960
ttttcttctt	catccttcgt	gtctcttatg	cggtgggtca	aagaatacaa	ccggcatttg	1020
gaagaaaagg	tgagcttctt	tggcattgac	cggaatatatt	accgcttaca	aagcagtatc	1080
gacctgtttt	acttctttta	cacgctccgc	agaggtaaag	gcgacgaagg	cttgaaagcg	1140
atatgcgagt	ctcttctgtt	gtcggacgag	aagttccctt	ttaaaggggc	ggactctgtg	1200
ttgcatgcca	atcatggctt	caagggcata	cttaccgggc	gggaagcggg	aataatgagc	1260
tactgcctga	attcggagga	ggaagcgacc	gctgatgaac	tgaatcgttt	tcggggcagg	1320
gattccggca	tgtacgagaa	tgcaaggttc	ttaatgaaaa	caatgcttaa	aaaagatgaa	1380
acgactaccg	tatattgtca	tttggggcat	gcgaattata	caagtatcgc	tggtatggctg	1440
agaccggaca	tgcgaccttt	cggagaatac	atgaagggtt	catacgggtg	tgactactcc	1500
gccgtgggac	tgcttgccgg	aggggggaagt	tatctgacat	gggtatttcc	cggtaaaatg	1560
ggaataaggc	gattgcagtc	ttcgtcgtct	gctggattag	aatactgtat	cgaacgttcg	1620
ggtatcagtc	cgtgttattt	gccgatggat	aaactgtccg	atgcggtatg	tttgaaaatg	1680
agatatatat	gaaatacaga	atcgaaaatt	ggacaattcc	agtgggtttt	tccaaaatgt	1740
atgatggacg	gagtgctggt	cacaaaaaac	gcgtccgcca	caaataagag	ggaagagttt	1800
tttaaatga	acttagacta	tcatgtccaa	actttatttg	ctcttatgta	tttgtatgaa	1860
aagaaaagaa	aatggattcc	atga				1884

&lt;210&gt; 526

&lt;211&gt; 1125

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 526

tataaaaaag	actataatat	tatggcattg	caatgtggta	ttgtcggact	tccaaatgta	60
ggtaagtcaa	cactttttta	ttgtctgtcc	aatgcgaaag	cacaggcggc	aaacttcctt	120
ttctgtacaa	togaaccgaa	cgtaggcgta	attaccgtgc	ccgacgaacg	tttaaatata	180
ctggctgaac	tggtacaccc	caaccgcata	gtccccacaa	cagtagaaat	cgtagatatc	240
gccggacttg	tgaagagtg	cagcaaaagt	gaaggactgg	gaaacaagtt	cctggccaat	300
attcggggaa	ccgatgccat	cattcacgta	ctccgttgct	tcgacgatga	caatgtaacc	360
catgtggacg	gaagtgtaaa	tccggttcgc	gacaaggaaa	tcatcgatta	cgaattacag	420

ttaaaagacc	tggaaacccat	cgagagccgt	atccagaaaag	tacaaaaaaca	agctcagacc	480
ggaggagata	aagccgccaa	acaagcttat	gatgtacttg	ttcaattcaa	ggatgcgttg	540
gaacagggca	aatcggcgcg	tacggtaacg	ttcgaaaaca	aagacgaaca	gaaaatagcg	600
aaagaattgt	tcttactcac	cagtaaacc	gtaatgtatg	tttgcaatgt	ggacgaagca	660
agtgcggtaa	atggaacaa	atacgtagac	atggtacgtg	aggcagtaaa	ggacgaagac	720
gccgaaatcc	tggtagtagc	cggaaaaaca	gaagctgaca	tgcgccgaact	ggaaacctac	780
gaagaccgtc	agatgtttct	tgccgaaatc	ggcctggaag	aatcgggtgt	ggcacgtctc	840
attaaatcgg	cctacaaact	gttgaacctg	gagacttatt	tactgccgg	tgtacaggaa	900
gtacgtgcct	ggacctacga	aaaaggatgg	aaagctccac	aatgtgccgg	agtgatccat	960
accgactttg	agaaaagtgt	tatccgtgcc	gaagttatca	aatacgaaga	cttccttcaa	1020
tatggctcgg	aggctgctgt	caaagaagcc	ggaaaatttg	gtgttgaagg	aaaagaatac	1080
gtagtacagg	atggagatat	catgcatttc	cgtttcaatg	tataa		1125

&lt;210&gt; 527

&lt;211&gt; 2208

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 527

aatcaaaagg	agaaaaataa	gaatatgcta	ctccaccgtt	ttcccgtaga	ataccaaatg	60
gattcgcaag	actgcggacc	tgcattccctt	aaaattattg	ctaagcattt	tggttaagttt	120
tactcattgc	agttcatgcg	tgaccgttgc	ggcattacca	aagaagggtgt	atcgttactt	180
gatctaagta	ccggggcaga	aagcatcggg	ctgcgaacgc	ttgccataaa	atgtaccatt	240
gatgatgtgg	tgaacagcat	tccgtttcct	gcaatttgtgt	tttggaatga	cagtcatttc	300
atcgtgggtat	atcattctga	taggaaatac	atatgggtct	cggatccagc	aaaaggacgc	360
ataaaaataca	cgcattgaaga	atttcgaaag	ggttgggtatc	aaagggatga	aagccaaggt	420
gtattacttg	ccgtggaacc	aactactgat	tttaagaata	gtaaagctga	acaagaacag	480
aagagaaaaca	gcttttcgag	cattctttaa	tatttttttc	catataaaaa	gagcttcggg	540
ttaatatatta	ttattatgct	cgttgttact	gtcttacaag	gtatgttacc	atztatctct	600
aaagcgggtga	ttgatgtcgg	cattaaaact	tccgacagga	actttattaa	tatggtactg	660
ataggggaaca	tctgtatctt	gttgagtgtga	atgattttca	atgtgttgag	ggattggatc	720
ttattgcata	tcacggcgcg	agtaaatatt	gctttgattt	ctgactactt	gataaaattg	780
atgaaactac	ctgttacttt	ctttgagaat	aagctgctgg	gcgatatatt	gcaacgggca	840
caagatcatg	aacgtatacg	cagtttcatt	atgaataatt	ctttggcatt	gatattttca	900
acgcttacat	ttgccgtctt	tagtattatt	ttattgattt	acaatactat	aattttctat	960
atatttttat	caggatcgg	tctgtacgct	tgttgggtgt	tactgttttt	gagcatatcgt	1020
aaaaaactgg	attgggaata	ttttgaaact	ttgtccaaaa	accaaagcta	ttgggtggaa	1080
accgtttcga	ctatacagga	tatcaaaatc	tacaattatg	acaagtaccg	gcggtggaaa	1140
tgggaagaaa	ttcaggcacg	gctttatcat	gtcaataagc	gtgttcttgc	cataaccaat	1200
gtcaaaaatc	tgggtgccca	atttatagaa	aatatcaaaa	atatggctat	cgtgtttttc	1260
tgtgctatgg	cggttatcaa	gggtgaaata	acatttggaa	taatgatttc	tacacaattt	1320
attattggta	tgctcaatgg	tccgcttgtg	caatttatta	attttgtgg	atcagcgcaa	1380
tatgccaaaa	tcagtttctt	acgcatcaac	gagattcgtc	agttggaaaa	tgaggatgaa	1440
ttactttcta	ttggcagtac	aaccatcctt	ccggaaaagaa	aaacgattct	attagagaat	1500
atacattttc	aatacacgcc	taactctcct	ttggttctgc	gtaatatatta	cttacaataa	1560
ccggaaaata	aaatcacggc	aattgtggga	ggaagtggta	gtggtaagtc	aactcttctg	1620
aaactattgg	ttcggcttta	taagcccagc	catggagaaa	taaaaatgga	caagatgaat	1680
gtaagtgcc	ttaatctacg	ccaatggaga	aacatgtgtg	gggtggtaat	gcaagatgga	1740
aaaatattca	gtgataccat	cttgaataat	attgtattag	atgatgaaca	aattaattat	1800
acgcgttttg	gggaagtgtg	tcgtatcgct	cagattgagg	atgagataaa	cgcgatgcct	1860
aagggttttg	aaacgaccat	tggagaaaacc	ggacgcgggt	tgagtggagg	acaaaagcag	1920
cgtttgttga	ttgctcgtgc	gctgtatcgg	gatccgaaat	ttctctttat	ggacgaagcc	1980
acaaactctt	tggattcaat	aaatgaacga	aaaattgtga	atgccttgaa	caatgcattt	2040
gaacagcgta	ctgttgttgt	tattgctcac	aggcttagta	ccattcgtaa	tgctgatcaa	2100
attgtgggtg	tggacaaaagg	ttttatcggt	gagaccggaa	ctcatgaaat	attgatggag	2160
aaaaaggggc	attattttga	gttggtttct	tcacagatac	aagattaa		2208

&lt;210&gt; 528

&lt;211&gt; 1194

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (130)

&lt;223&gt; Identity of nucleotide sequences at the above locations are unknown.

&lt;400&gt; 528

ctaccattac	tgcgcttggc	ccggccggac	gcagatgaac	cttttcgtac	tgaagtgtgg	60
tataaaggta	caatagaaca	tgatacactt	cgaggagata	tctatgtggt	tggcggattc	120
gatccggagn	ttgatgatga	aagaatgaat	gcattggtag	aagaggtgat	tactttccct	180
ttctcggtat	tgaaagggaa	tatctacgga	gatatatcga	tgaaagattc	tctctattgg	240
ggaagcgggt	gggcatggga	tgatactccc	tcctcttttc	aaccttatct	atcaccatta	300
atgtatcata	aaggcatggg	gaaagtgaca	gctgttccgg	gggcgacacg	agggtgactcg	360
gcacgtttta	gctttgagcc	gtcatcgtct	tattatacta	tgaccaatga	aactaaaaca	420
cgtacatcct	ctgccggtaa	gttttctgtg	tcaagagggt	ggttggaaaa	taaaaataat	480
cttattgtca	gtggaaatgt	agagaataga	agaatagggt	atgtaaatgt	atattcttcg	540
caggactttt	tcatgcatac	ttttgtcgaa	cgtttacgta	ataaagggtat	agagattttcc	600
aatcattatg	ctttcgacag	tttccgggtc	gacagtcttt	ctatctgtat	ggcacgttgg	660
gagtgcccg	ttcaggatgt	gatagaccag	attatgaaag	agagtgataa	tttgagtgcg	720
gaagcactgc	tttgccggtt	aggtgcccgg	gccacaggta	agaagcagggt	ttcggctaag	780
gacggaattg	aggaaatata	tcggttgatt	caggatttgg	gacatgatcc	ggataactat	840
aagatagctg	atggtttgtg	attgtccaac	tacgactacc	tctctcctgc	cctactgggt	900
gattttctga	agtttgetta	ttcggcgaca	gatattttcc	ggaaattata	taaggccctt	960
ccggttgcag	gcacgatggg	aacattaaaa	aatcggatga	aacaaggggc	ggcgtttaag	1020
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&lt;210&gt; 529

&lt;211&gt; 1584

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 529

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&lt;210&gt; 530

&lt;211&gt; 786

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 530

acagaattaa	gtatgactat	tatttttcct	tctcctatat	tccgaccggg	tcattcacgt	60
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tattga						786

&lt;210&gt; 531

&lt;211&gt; 2679

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 531

gtagattttga	gggaaaccgc	tatcttttgc	ttgttattta	tgaacttaaa	aagaagacta	60
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&lt;210&gt; 532

&lt;211&gt; 1800

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 532

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&lt;210&gt; 533

&lt;211&gt; 1413

&lt;212&gt; DNA



&lt;213&gt; B.fragilis

&lt;400&gt; 533

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gccacattga	aggggtgaaga	agtcttcagc	ttaa			1413

&lt;210&gt; 534

&lt;211&gt; 687

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 534

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&lt;210&gt; 535

&lt;211&gt; 717

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 535

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tcgcggaag	aatttgaaac	ccgtcttaac	tgggaggtat	ggagcgagaa	agtaaataaa	660
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&lt;210&gt; 536

&lt;211&gt; 285

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 536

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&lt;210&gt; 537

&lt;211&gt; 267

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 537

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gcgcttgccc	cggccgggacg	cagatga				267

&lt;210&gt; 538

&lt;211&gt; 1689

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 538

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ataaattaa						1689

&lt;210&gt; 539

&lt;211&gt; 2433

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 539

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&lt;210&gt; 540

&lt;211&gt; 1119

&lt;212&gt; DNA

## &lt;213&gt; B.fragilis

## &lt;400&gt; 540

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## &lt;210&gt; 541

## &lt;211&gt; 1122

## &lt;212&gt; DNA

## &lt;213&gt; B.fragilis

## &lt;400&gt; 541

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## &lt;210&gt; 542

## &lt;211&gt; 2898

## &lt;212&gt; DNA

## &lt;213&gt; B.fragilis

## &lt;400&gt; 542

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&lt;210&gt; 543

&lt;211&gt; 753

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 543

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&lt;210&gt; 544

&lt;211&gt; 636

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 544

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&lt;210&gt; 545

&lt;211&gt; 381

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 545

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&lt;210&gt; 546

&lt;211&gt; 852

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 546

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852

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 <212> DNA  
 <213> B.fragilis

<400> 547  
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 <211> 186  
 <212> DNA  
 <213> B.fragilis

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 aaaaaaata gactgagaaa gagtgttaca aaatacttca taatgttttag gttagggttat 180  
 aatga 186

<210> 549  
 <211> 1434  
 <212> DNA  
 <213> B.fragilis

<400> 549  
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 tcttccctga gttttatgct gaaacgcgcc gggtatcagg taattgcagt gaccggcccg 180  
 cgtgaggcga tggaagtagt tcgttcggaa gctccttctc tgatcctgat ggatatgaat 240  
 tttacacttt ccacttcagg tgaagaagga ttgacgctt taaaacaagt aaagggtttt 300  
 cgtcccgatg tcccggtcat tctgatgact gctggggca gtatacagtt ggctgtacaa 360  
 gggatgcagg ccggtgcatt cgactttatc acgaaacctt ggaataacgc tgctctgttg 420  
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&lt;210&gt; 550

&lt;211&gt; 324

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 550

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gatcatgccc	aatttatgct	aaagcatgaa	atggtggata	taatgaagaa	aaaagccaaa	300
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&lt;210&gt; 551

&lt;211&gt; 1503

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 551

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&lt;210&gt; 552

&lt;211&gt; 519

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 552

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&lt;210&gt; 553

&lt;211&gt; 1044

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 553

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&lt;210&gt; 554

&lt;211&gt; 1161

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 554

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&lt;210&gt; 555

&lt;211&gt; 1668

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 555

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&lt;210&gt; 556

&lt;211&gt; 1788

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 556

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&lt;210&gt; 557

&lt;211&gt; 774

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 557

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&lt;210&gt; 558

&lt;211&gt; 468

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 558

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gaacaactga	agaaatcatt	ggaagaaacc	ctgccggaaa	caataaagaa	caatgaagag	360
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&lt;210&gt; 559

&lt;211&gt; 1227

&lt;212&gt; DNA

&lt;213&gt; B.fragilis



<210> 562  
 <211> 2373  
 <212> DNA  
 <213> B.fragilis

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 ctcaacttata agatagccta tctgctcgag aacgggttaca atccctggaa tatectggca 180  
 ctgacttttca ccaacaaagc tgcccgtgaa atgaaggagc gtattgcccg gcagggtgggc 240  
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 cccggcagtg tgcaggcagc catctccaat gcgaagaacc acctggtgtc tccttcggga 480  
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 atcgtgctgc aactgacaaa ggagaatcag cgtgtatgcg tgggtggcgga cgacgcgcag 780  
 agcatctact ccttcagggg agcggacatt gacaatattt tgtatttcac caagatatat 840  
 cccgatacca aagtcttcaa gctggagcag aactaccgtt ccacccagac cattgtccgt 900  
 gcggccaaca gcctgatcga aaagaacgag cggcagatcc ccaaagaggt gttctccgag 960  
 aaggaacggg gtgaggccat cggggtcttt caggcttaca gtgatgtgga agaaggcgac 1020  
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 <212> DNA  
 <213> B.fragilis

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 gtggataaag atttgttcct tggcctcgga tggctgttga gagaagataa gatctctact 180  
 caggaaatcg aaggatgaact cttcgttaca ttgaactaa 219

<210> 564

<211> 1329  
 <212> DNA  
 <213> B.fragilis

<400> 564

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accagatatt	caaattgggg	aataaaaaa	gattctattt	ggctttttat	tgcaatcata	180
gatgtagtat	tactttttat	gcttatttct	ttttttcgat	ttaaaagaat	agtaaaccoca	240
tcttctgtat	atcttggttt	tgtaggacta	tttgcataata	gtgtattacc	actatcagag	300
aatattcgct	tctcgaatga	gttgctcttg	ataatattat	gtggtgtagc	agcttatttt	360
gtagggtgat	tttggttgcc	tcaaatacac	attattactt	tcccgggttt	tacaaacagg	420
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atttttagaat	cttatctaat	atcatattct	tctgttaatt	tctataagat	gaatgatgta	960
atacaactaa	aagaagtatt	gaattactct	tctaattgga	gaaattcatt	aaagccaata	1020
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aatttatcta	cttatatcgc	agatccatat	cttgattttg	gatatgcagg	gggtgtgtgt	1140
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aaacgatga						1329

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 <212> DNA  
 <213> B.fragilis

<400> 565

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 <212> DNA  
 <213> B.fragilis

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 aaaatatcct attgggttag cgaaccggat aaaggatatt atgacgctat gaataaagg 300  
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 gatgcaataa ctggaatata ttctactaat cctctattgc tttataatga aaatactcgg 720  
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 gtgcttttgt catttataat aaatggattc ttactaaatg attatgtgcg aaataattat 840  
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 tga 903

<210> 567  
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 <212> DNA  
 <213> B.fragilis

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 cagtttgagt atccttggtt catgctggct ctgactttga taacctttat tagttttgtg 240  
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 ggaggggtatt cttgggttgt attacttgc ttagctttta tcaatgtgca aattgtccgt 480  
 tttgtggagg aggatctgat atacactatg ctttgtgctg tgttggtatt taattttttc 540  
 aattttcgca agaaggccaa atgctttgcc ggggatgtgg gatcggtcag tattgccttt 600  
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 tatctgttaa ctcccggttg gggctattgt tatttattgg gcacaattgt cataactaagt 900  
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<210> 568  
 <211> 1488  
 <212> DNA  
 <213> B.fragilis

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 aagttaggat tgaacgggtgc tttgtctatc gaccagaaca tctggtttac gggaggtaaa 360  
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&lt;210&gt; 569

&lt;211&gt; 2406

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 569

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aaagaatata	ctaacttcaa	cgattctgta	ttttcaatca	acgaagtagt	agtggcaacc	180
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&lt;211&gt; 285

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

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&lt;210&gt; 571

&lt;211&gt; 900

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 571

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&lt;210&gt; 572

&lt;211&gt; 1437

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 572

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&lt;210&gt; 573

&lt;211&gt; 1899

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 573

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&lt;211&gt; 312

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 574

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	120
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&lt;211&gt; 249

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 579

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&lt;210&gt; 580

&lt;211&gt; 1320

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 580

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 <211> 801  
 <212> DNA  
 <213> B.fragilis

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 gaagacgaca tgctgaaaca tattgtacat ccgcacattc agttgcttcc caacacatcg 240  
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 ctgggagcac ctatcggaac caataaagga ctgcaaacca aggagtttct gcaaatcatt 540  
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 acggcatttt taaacgaata a 801

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 <212> DNA  
 <213> B.fragilis

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 ctgatagaat cctacatatt ggacgcaaaa gaacaaaata tcaagacatg caaagattcg 180

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aagaaaaaga	accaagaagg	aaagcgctga				330

&lt;210&gt; 585

&lt;211&gt; 1281

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (1074), (1086)

&lt;223&gt; Identity of nucleotide sequences at the above locations are unknown.

&lt;400&gt; 585

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ataatgttgt	tgttctcgta	a				1281

&lt;210&gt; 586

&lt;211&gt; 288

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 586

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&lt;210&gt; 587

&lt;211&gt; 1347

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 587

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&lt;210&gt; 588

&lt;211&gt; 1014

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 588

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&lt;210&gt; 589

&lt;211&gt; 429

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 589

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gaagcggaat	tccacaagaa	gtatgatccc	acaaaaatag	aaggcgcagt	agtctactgg	360
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 <212> DNA  
 <213> B.fragilis

<400> 590

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 <213> B.fragilis

<400> 591

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aatccggggt aa

192

&lt;210&gt; 592

&lt;211&gt; 579

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 592

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&lt;210&gt; 593

&lt;211&gt; 723

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 593

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tga						723

&lt;210&gt; 594

&lt;211&gt; 948

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 594

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 <212> DNA  
 <213> B.fragilis

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&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 597

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&lt;211&gt; 3981

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 598

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&lt;210&gt; 599

&lt;211&gt; 522

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 599

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&lt;211&gt; 288

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 600

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&lt;210&gt; 601

&lt;211&gt; 1812

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

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&lt;210&gt; 603

&lt;211&gt; 717

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 603

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&lt;210&gt; 604

&lt;211&gt; 447

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 604

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&lt;210&gt; 605

&lt;211&gt; 1779

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 605

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&lt;210&gt; 606

&lt;211&gt; 789

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 606

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&lt;210&gt; 607

&lt;211&gt; 330

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 607

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&lt;210&gt; 608

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 <213> B.fragilis

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 <211> 1437  
 <212> DNA  
 <213> B.fragilis

<400> 609

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 <211> 507  
 <212> DNA  
 <213> B.fragilis

<400> 610

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caatggagca	tttctaaaca	gaaataa				507

&lt;210&gt; 611

&lt;211&gt; 945

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 611

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&lt;210&gt; 612

&lt;211&gt; 261

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 612

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&lt;210&gt; 613

&lt;211&gt; 618

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 613

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agaattctaa	acataataa					618

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 <212> DNA  
 <213> B.fragilis

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 <212> DNA  
 <213> B.fragilis

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 <211> 291  
 <212> DNA  
 <213> B.fragilis

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<210> 617  
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 <212> DNA  
 <213> B.fragilis

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&lt;210&gt; 618

&lt;211&gt; 2730

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 618

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&lt;210&gt; 619

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 <213> B.fragilis

<400> 619

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 <213> B.fragilis

<400> 620

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 <211> 423  
 <212> DNA  
 <213> B.fragilis

<400> 621

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<210> 622

<211> 471

<212> DNA

<213> B.fragilis

<400> 622

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<210> 623

<211> 1311

<212> DNA

<213> B.fragilis

<400> 623

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<210> 624

<211> 291

<212> DNA

<213> B.fragilis

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<210> 625  
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 <212> DNA  
 <213> B.fragilis

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 aatacatttg tgtttataaa taacgatgga tcaatatcaa tagaaacagt ttcaagatct 360  
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 <213> B.fragilis

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<210> 627  
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 <212> DNA  
 <213> B.fragilis

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&lt;210&gt; 631

&lt;211&gt; 2871

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 631

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 <212> DNA  
 <213> B.fragilis

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 <212> DNA  
 <213> B.fragilis

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&lt;210&gt; 634

&lt;211&gt; 228

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 634

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&lt;210&gt; 635

&lt;211&gt; 1353

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 635

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&lt;210&gt; 636

&lt;211&gt; 186

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 636

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atttga

186

&lt;210&gt; 637

&lt;211&gt; 918

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 637

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&lt;210&gt; 638

&lt;211&gt; 1011

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 638

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&lt;210&gt; 639

&lt;211&gt; 849

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 639

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&lt;210&gt; 640

&lt;211&gt; 441

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 640

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&lt;210&gt; 641

&lt;211&gt; 1092

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 641

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&lt;210&gt; 642

&lt;211&gt; 288

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 642

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&lt;210&gt; 643

&lt;211&gt; 699

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 643

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&lt;210&gt; 644

&lt;211&gt; 723

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 644

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taa						723

&lt;210&gt; 645

&lt;211&gt; 192

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 645

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aaaaaaaaga	ggctgcccaa	tttctcgaat	caggcaaccc	ctttcacaaa	aatctttgcg	120
aaaaaagatc	tatttgatca	ttacatcatt	ttctcgattt	cttcgaattc	cgggtccata	180
ttcaggttgt	aa					192

&lt;210&gt; 646

&lt;211&gt; 1068

&lt;212&gt; DNA

## &lt;213&gt; B.fragilis

## &lt;400&gt; 646

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## &lt;210&gt; 647

## &lt;211&gt; 651

## &lt;212&gt; DNA

## &lt;213&gt; B.fragilis

## &lt;400&gt; 647

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## &lt;210&gt; 648

## &lt;211&gt; 984

## &lt;212&gt; DNA

## &lt;213&gt; B.fragilis

## &lt;400&gt; 648

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 <212> DNA  
 <213> B.fragilis

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gttatcttgc	tacatgtcta	ctttacgcca	atztatgctt	catcattgcc	atatggagat	480
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<210> 650  
 <211> 369  
 <212> DNA  
 <213> B.fragilis

<400> 650						
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tacacgtga						369

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 <212> DNA  
 <213> B.fragilis

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&lt;210&gt; 652

&lt;211&gt; 282

&lt;212&gt; DNA

&lt;213&gt; B. fragilis

&lt;400&gt; 652

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tttaacaaaa	agttctacta	tgtagaacag	gactgctgga	tcagcctgag	cctctgtgct	180
gctgggttgc	gtattattaa	taagaaaggt	ttggacgctg	ctttgaatga	tgccgttgcc	240
aaagggattt	gtgattggaa	aaccattaaa	gttggtggct	aa		282

&lt;210&gt; 653

&lt;211&gt; 840

&lt;212&gt; DNA

&lt;213&gt; B. fragilis

&lt;400&gt; 653

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aatgcagagt	tttccgggtc	caaattagaa	gatgccacaa	aagctgaggg	agatagtgca	180
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&lt;210&gt; 654

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 <213> B.fragilis

<400> 654

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aacagaaaaa	atactactga	aagacttgag	ttgaagaagt	acaacccaat	tctgaaaaga	180
gtaacagtac	acaaagaaat	taaataa				207

<210> 655  
 <211> 3390  
 <212> DNA  
 <213> B.fragilis

<400> 655

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&lt;210&gt; 656

&lt;211&gt; 1479

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 656

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&lt;210&gt; 657

&lt;211&gt; 2543

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 657

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&lt;210&gt; 658

&lt;211&gt; 996

&lt;212&gt; DNA

&lt;213&gt; B. fragilis

&lt;400&gt; 658

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<210> 659

<211> 870

<212> DNA

<213> B.fragilis

<400> 659

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ttactgaatt tgtttgctaa acgaaattaa 870

<210> 660

<211> 1365

<212> DNA

<213> B.fragilis

<400> 660

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<210> 661

<211> 1248

<212> DNA

<213> B.fragilis

&lt;400&gt; 661

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&lt;210&gt; 662

&lt;211&gt; 1005

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 662

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&lt;210&gt; 663

&lt;211&gt; 1257

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 663

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aattatgcaa	cagcacaagc	tgagatcaag	aaattctacg	aagctgctaa	accgtattac	1140
gaaaaagcaa	gagagctgaa	acctgatcag	aaagatttgt	ggttacaagg	tctttaccga	1200
gtatattaca	acctgaatat	gggaccggaa	ttcgaagaaa	tcgagaaaat	gatgtaa	1257

&lt;210&gt; 664

&lt;211&gt; 303

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 664

aattgtagga	ttttgaataa	taaagaattt	acttctgaac	tttctcgcag	attgggggtat	60
aatacaaaat	atacttctga	actgataaca	tctctgctgt	ctgatattac	tcaggaattg	120
caggaaagca	atgctatagg	aatacaggga	tttggtactt	ttgaggtaaa	aaagaaagca	180
gaacgtattg	tcataaatcc	cgtcactaag	ttgcgactgt	tggttccacc	caagttagta	240
ctggcggtta	agccgagtc	tatattaaaa	gataagttta	aagaaacatt	tccgtatgaa	300
tga						303

&lt;210&gt; 665

&lt;211&gt; 441

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 665

ttaccgatgg	tgaaaatcat	gaaaggggga	gctgttgaag	ctggcaaaaa	ggcgggctaaa	60
aagggaattc	aggtgaatgt	attgggagta	ggcttaccgc	atggagctcc	cattccgatt	120
gagggcagta	acgactttcg	tcgtgaccgt	gaagggaatg	taattgtgac	tcgtctgaat	180
gaggcaatgt	gtcaagagat	agcaaaggaa	ggaaatggta	tttatgttcg	tgtagataat	240
tctaattctg	ctcagaaaagc	tattaatcaa	gagattaata	aaatggctaa	atcggatggt	300
gaatctaagg	tttatacaga	ttacaatgaa	cagttccaag	tgattgcatg	gatgatattg	360
ctcttgttat	tggtggaaat	gttgattctg	gaccgcaaaa	atccattggt	taagaacatc	420
aggttggttt	ctaataagta	g				441

&lt;210&gt; 666

&lt;211&gt; 216

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 666

agttttctat	cttcaaaaaca	ggatgcaaaa	atactaaaaa	tgggtgaact	gtgctcattc	60
tttatctata	attttaagag	aggtcatacc	aagggttatat	ataaatcagc	cggtttatgg	120
atcgacaacc	ggcggttta	tggtttctct	aaagacaaga	gatcaccatt	tcttgcctt	180
ctcttccaac	gggaaccata	catattagag	aattaa			216

&lt;210&gt; 667

&lt;211&gt; 1551

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 667

acaaacctcc	cccctcgtct	gttacaagga	ctcataaacc	taaaccgtaa	cagacgtatg	60
gaaaaaaaga	aaataccctg	cgcactgatg	atageggcag	gaatgctctt	atacaacaac	120
accgtcgcgg	cgcagagcct	ccctcccaca	caggaaactt	cgcaacatca	gcttagcttt	180
aacgaggcgc	tgcaactgct	gcacaaaggg	aaccaaagcc	tgaagatagc	cgacaaaggg	240
atcgacatag	cccgtgccga	acgtgggaag	ctgaatgctt	tctggatgcc	cagcctgcaa	300
tcgaccggag	catttgtaga	cctttcggag	aagatagaag	tgaagcaacc	gctttctcaa	360
ttcacccgat	cggccaaaga	cttcgtacat	tccatcttgc	cggacgataa	aatcatatcg	420
tcataactcg	atcaaatecg	gacgaacacc	ctcatcttcc	cgttggcacc	gcgcaacctg	480
accactgtcg	acctgaccgc	cgaatgggta	ttgttcgccc	gaggcaaacg	tattcatgcc	540
actaagatag	gcaatacggat	gatagacctt	gcccgtgaga	accgggcaca	gaccgatgcc	600
acccaacgaa	cactgcttgc	cgaaagctac	tacggattgc	gcctggcaca	agaaattgtc	660
gggtgtccgc	tgggaatcgta	caaagcactg	aagctgcatt	acgagaacgc	attgaaactg	720
gagtcacccg	gtatgataga	taaagcggca	cgcctctttg	cccaagtcaa	catggacgaa	780
gcaactgcgt	aactggaagc	cgcccgcgaag	gaagaggccg	tggtgcaacg	caccctcaag	840
accttgctga	atctggagac	gagcggagac	atctcacctt	cctctcccct	gtttatcaac	900
gatactcttc	ctccgaagat	ggagtttatg	caggtagtgg	gcatacagtaa	ctatctgctc	960
aaaccaactga	gtcttcaaga	acacatggcc	aagcagcagg	tccgcacgca	ccagagtggc	1020
tatctgcccc	atatcgccct	tttcggcaaa	caaactcttt	attcacatgg	catacagagc	1080
aacctgttgc	cccgcaccat	gatcggggta	ggcttcacct	ggaacctttt	cgacggactg	1140
gaacgggaga	agcgaatccg	gcaatcacgc	ctgacacaac	aaaccttgc	actaggacag	1200
gagaaagcgc	gtgacgacct	gtccgtcggg	gtagacaaac	tatacacccg	cctgcaaaaag	1260
gcactcgaca	acgtgcgggc	gctgaacacc	accatcgaa	tgagtgaaga	actggtacgg	1320
atgctggaaaa	aagccttcgc	cgaagggaatg	gtcacttcga	cagaggtagt	agacgcagaa	1380
accttactttt	cgaaaacaaa	agtagccaga	ctggcggcct	actacgaata	tgacgtgacg	1440
ctgatgaatc	tgctggcact	gtgcgggaata	cgggaacagt	tcggaagcat	gaaggacatc	1500
acctctcttc	ccattacgga	gaacagaaga	aatgaaatag	aaatcgaatg	a	1551

&lt;210&gt; 668

&lt;211&gt; 201

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 668

aaaacacaac	cgtcttttcg	agtaaatgct	tacttctttt	ggtcgaaata	tcggctcttc	60
gaagtgaana	cacagactct	tccccttccc	aagcccggtt	ttctgggcaa	agaagcagaa	120
agttccggga	cattctcccc	tatatgggta	agaaaacaaa	aagggatagt	tagcagaaaa	180
tgccattacc	tgtctttttg	a				201

&lt;210&gt; 669

&lt;211&gt; 435

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 669

tttctatata	ctctgccaga	ctttgtatgc	tggctaccgg	gagcatgggg	atctggaatc	60
catttgtgcc	atcttctctc	ttccggtagc	ccattggaaa	gattgcaatc	ggtgttcgga	120
catatcaatg	ggatgcctgc	tttgtcaagt	gcttcggaag	caaagaaaat	gtgtatgttt	180
ctgcgttgga	tgattcgtag	ggattctcct	gtcgacctcg	gtatttggcg	gagtttcagt	240
cctccagatc	taattatccc	tcttgacact	catgtacatc	gcatactcgac	tgatcttcgga	300
ttgaccaatg	cacgtaaatg	cctgaaaaca	gcacgttgca	ttactgatgc	gttgcgggaa	360
atatggccgg	atgatccggg	aaagggagat	tttgctcttt	tcggatttgg	tatcaacgaa	420
ccgggtgaaaa	gtag					435

&lt;210&gt; 670

&lt;211&gt; 807

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 670

caaggagggg	caggcatggc	taactggata	accctcaaac	aactgtcggg	gaaacggcgg	60
attgccgaat	cgcacctccg	cacatgggca	aacttgggat	atatcacttc	atcgaggata	120
gagaacgtcc	taatgattga	tgacgaaagc	ctgacccaat	atcttgatgt	tcaccagacc	180
aaagatttag	gtgagaacta	tctggaaaag	attatcaaag	aaaagggaact	ggaacgtgaa	240
gtactcctct	cacaatgtga	cgacgaaacta	tttctattga	aaaccagaa	actacaccaa	300
ccgctttttc	atatcctcat	tcaggaaactc	ggccagttga	ttacagacga	tcataaacgg	360
gaaatattcc	tttccgtctc	cagtggcgaa	cccatcgac	gggtggcgaa	acgtaacaaa	420
atgacgtatg	cacgagtgcc	gacttgctat	agttccatcc	tcgggactct	gggtgaacat	480
aagggacgaa	tcgccacatt	tcgcagtcgg	acgatggaac	tgatgttcga	taaatacaat	540
gcggtcacac	ccgtaaatac	tcccctatca	aaccttgtcg	gcgcgcacgc	ctataatgtt	600
ttatatggag	agatgggatt	caggacagta	cgcgaccttc	tacaatacgc	caccacgaac	660
ggatggcaaa	gcctgagacg	cttcaagggt	atgggactgg	ttacgtataa	gagtgtgatg	720
aacgcactaa	gggatgccaa	cttcatcatt	gtccgcaaag	acggaaacat	cgagctgtca	780
ccagagatcg	ctgcactggg	aatataa				807

&lt;210&gt; 671

&lt;211&gt; 1242

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (1135)

&lt;223&gt; Identity of nucleotide sequences at the above locations are unknown.

&lt;400&gt; 671

gagaaaagat	attctcagtg	ggactctgtg	ctactctgtg	gtaaatcaaa	actcaaagac	60
aatctaatta	tgcaacactc	ccctataacc	cgtgtcctac	aatgtgagtg	gcaacgggatg	120
acctctcgac	gcctctactt	cgggtgtctgc	ctgggtacttc	cgttggttcac	gctctttttc	180
atggctacca	tattcggcaa	cgggcagatg	gaaaatatcc	ccatcggcac	tgctcgaccgg	240
gacaacacgg	ccacttcgag	agatattacc	cggcgggatgt	ctgccgtacc	caccttcggg	300
gtaaccggcc	acttcgttga	cgaagccgag	gcacgcaaag	cggtagacga	gaaagaaata	360
tatgggttate	tctcgatccc	tccccgcttt	gaacaagata	tgatatcggg	gcaggacgcc	420
actctgaact	attattatca	ctatgcctcg	ctctcggtag	gaggtgagtt	gatggccgcc	480
ttcgaaagct	cgtcgcgacc	cgtagctctc	tcccccatcg	tgatgaaagc	tgtggcgctg	540
ggagtgaacg	aacagcagat	agaaaccttt	ctactccccg	tgcaagccaa	caatcatccc	600
atttataacc	cgtcgcgtga	ttactcggtc	tacctgagcc	agcctttctt	ttttgtactc	660
tttcagggtg	tggtactgct	tatcacggta	tatgccgtag	gaagcgaaat	aaagttcggg	720
acagccggtc	aatggttgca	ggcggcgggc	ggcgacatca	cgggttgccg	tacgggcaag	780
ctgttgccct	atacgcttat	cttcagcctg	atcgggtatat	tgggcaactt	tgctcatgttt	840
ggcatcctgc	atataccttt	tcaagggagt	tggctgctgc	tcaacgtcat	gacagtgtct	900
tttatcattt	ccactcaggc	actggcattg	ttcatcttct	ccctgttccc	tgccgtggca	960
atcatcatca	gtatcgtatc	catggtcggc	tcgctgggag	ctactttatc	cgggtgtcacc	1020
tttccggta	tcaacatgta	tccgttggtg	cgcgacgcct	cttatctgtt	tccggtgcgc	1080
cattacaccg	aaattacaca	aaccatgctc	tactatggcg	gcggtatttat	ccacntatgg	1140
ccttcggcag	tgatactctg	tatcttcccg	ttattggcgt	tggcgatgct	tccgcacctc	1200
agacgagcca	taatcagtcg	taaataatgaa	aacatccggg	aa		1242

&lt;210&gt; 672

&lt;211&gt; 753

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 672

ataaagaatc	tatatcttat	ggagattttc	tggaaaacta	ttgcgtatta	taattctgct	60
acatggatct	atcagttact	gatcattgtc	gccggcctgc	tgttgacagt	gatgcttata	120

aagaatcccc	gtccgtgggt	aaagatgggc	atgaagctat	atatgatttt	tctgtatttg	180
tggattgcta	tgcataatta	tgccatctgt	tgtgacgagc	gcagttataa	cggggcgctg	240
gctatgttct	gggtggttat	ggccacgata	tgggtatggg	atgccatcac	cggatatact	300
actttcgaac	gtacataata	atatgatata	ctttcgtacg	tattgttgat	tttaccattt	360
gtatatacct	tggatatccat	tgcgagagga	cttacttttc	caggcattac	atcgccggta	420
atgccttgct	cggtaacagt	tttcacgata	ggtctgcttt	tgttgttctc	ccgtaaggta	480
aatatgtttt	tgggtgctgt	cctgtgccat	tgggtcgctga	tcggctttat	gaagacttac	540
ttctttaata	ttccggagga	tttctttttg	gccagtgcaa	cgatccctgc	cctatatctc	600
ttttccggg	agtattttct	caacaacctg	catgccgata	caaagcctaa	agcaaagtac	660
attaattggt	tgcctgtctt	tgtatgcgta	tctatcgga	tcttacttac	caccaccctg	720
tttctggagt	tgatgccggg	caaacagccg	tag			753

&lt;210&gt; 673

&lt;211&gt; 1503

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 673

cgtgacgaac	acgatatgaa	taagaaotta	caccctttga	tgctggccgg	aaccggtagc	60
gatgtaggca	aaagcatcat	tgcgcagct	ttctgccgta	tatttctgca	agacggttat	120
catccggcac	cattcaaagc	acaaaacatg	gcattgaact	cttatgccac	tcccgaagga	180
cttgaaatag	gaagggcgca	agccgtgcag	gccgaggccg	caggtgtgcc	ttgccataac	240
gatatgaacc	cgttgcttct	gaaaccatcg	tccgatcata	cttcacaggt	ggtgctcaac	300
ggacgtccca	tcggcaatcg	gaatgcttac	gaatatttcc	gccgtgaagg	gcgggaggaa	360
ttgcgaaaag	aggttcacgc	cgcattcgac	cgtttggctg	cccgatataa	tccggtagtg	420
atggaggggag	cggggagtat	ctccgagata	aatcttcgtg	acagcgatct	ggtgaatctg	480
cccatggcca	tgcatacgcc	ggcagatgtg	attctcgtgg	ccgatataga	ccgtggagga	540
gtgttttgcca	gtgttttacgg	ttcgggtgatg	ctgcttcggc	cggagagcgc	gaagcatatc	600
aaggggatat	tgattaataa	attccgtgga	gatataccgc	ttttcgagtc	gggggtaaag	660
atgctggaag	atctttgtgg	tgttcgggtg	ggtgggggtg	tgccctacta	taaagatata	720
tatattgagg	aagaagactc	ggtgatgctt	cagaccaaga	atatccgtgc	cggacaaggc	780
aaagtgaatg	tggctgtcgt	gttgcttcgt	catttaagca	atttcaccga	cttcaatgtc	840
ttggagcgcg	atccgcgtgt	acacttgctc	tacaccaaca	atacggacga	gttgatgaaa	900
gcggatatca	tccgtgtgcc	cggttcgaaa	agcactttgt	ccgatctgta	tgagttgcgc	960
cgcaacggag	tggcgcaggc	catcgtccgt	gcccaccgcg	aaggtgccac	ggtaatgggc	1020
atltgtggag	gtttaccaact	gatgggtagg	gaggtttgca	atcccgatca	tgtggaaggc	1080
gagatagaac	gcttgccggg	attgggggta	ctgctgtgca	gcaccgcgat	gcagggagag	1140
aaggttacc	ccaggtacgc	gttctgtttt	cttgaagaca	gcgctgtctg	cgaaggatag	1200
gaaatacaca	tgggaacgac	cacgcccctt	gcggatgttc	ctgtttctcc	actcaaccat	1260
ctggcggacg	gaagggagga	tgggtatttt	gtagaccgca	cctgcatggg	aacatacgta	1320
catggcattc	tcgacaatcc	ttcagttatc	gattacctgc	tggagccttt	cgccgataaa	1380
ctgaaagaga	cggcttttga	ttacaaagca	tttaaagaag	aacaatacga	taaactggca	1440
gcccattgtc	gtaagcacgt	cgacttgccg	cttatctatc	aaatattgac	agacaatgat	1500
tga						1503

&lt;210&gt; 674

&lt;211&gt; 1203

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 674

tcagtcgtaa	atatgaaaac	atccggtaaa	ctttcgcaga	tttcctttat	catcgcacgt	60
gagtttcgtg	ccatcagcac	cagctatgcc	gtactgttgg	tactgatggg	aggtatcttt	120
gtttatgggt	tgctctataa	ctatatgtat	gctcccaata	tcgtgaccga	cgctccgggtg	180
gcagtggtcg	acaactcgca	cagcagcctt	agccggcaat	acatccgttg	gctcgacgcc	240
acgccgcaag	tagccgtata	cgcacaagcc	atggactatc	gggaagcccc	cgaatggatg	300
aaagagggca	aggtacaagg	cattctgtac	attccgcgat	atlttgagac	ccgtgtcttc	360
cagggacgcg	aggctgtatt	ctcactatac	gccaccacag	acgcctttct	ctatlttgaa	420
gcgctgcaag	aagccacttc	acgtgtatac	cttgccatca	acgatgccca	tcgcatggac	480



ggtgccgtat	tcctccccc	gcagggactg	cttgccgtgg	ccatggccaa	gcccgtaaac	540
gtgaccggca	cgcactcta	taaccacacc	gaggggtatg	gttcttatct	gattccgggt	600
gtcatgatgg	tcattatctt	ccagacctta	ttgatggtta	tcggtatgct	gacgggtgac	660
gagtatcagc	accgcgctac	agaaccgttg	cttcgggggg	gcaggacagt	agataaaaagc	720
ggactctggg	gaggggcaat	gcgtcttggt	gccggaaaga	cttttgtgta	ctgcggaactt	780
tatacgggtct	tctccatggt	cttgtagga	ttattacccc	acttcttcag	cattcccaat	840
atcggaacg	gactgtacat	taccgctatg	atggtaacct	atctgatggc	gacctcttct	900
ttcgggctgg	cagcctcgcg	ttacttcacc	gattcggaa	ctccgctgct	gatgatcgct	960
ttcttctcgg	taggcttgat	ttcctgtctc	ggagtctcct	accgctgga	actgatgcca	1020
tggtattggc	gcattggaca	ttacatcctc	ccggccgcac	ccgccacgct	tgcttctgct	1080
aagctaaact	cgatgggagc	cgatatggca	gacatacagc	cggaatacat	tacactgtgg	1140
atacaggtga	tcgtctatct	cgggctcagc	gtgtgggtat	acaagaaaaa	gctggaagcg	1200
tga						1203

&lt;210&gt; 675

&lt;211&gt; 966

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 675

ccaagcccaa	aggtctctctg	ggaacacttg	aagaactggc	cttgcatatc	gggcttatcc	60
cagcaaacac	ttactcccga	gctgagacat	cctcaaaata	tcataatcgc	agccgatcat	120
ggcattgtcg	acgagggagt	cagcctctct	cccaaagaga	tcacctggca	acaaatcagc	180
aattttcttc	acggaggggc	aggtgtcaac	ttcctttgcc	gccagcacgg	attcgagttg	240
aagattgtag	atgccggagt	ggattacgac	ctcccatacg	agaaaggaat	catcaacatg	300
aaggtagcga	aaagctcgcg	taactatctg	tacgaggcag	ccatgacaga	agaagaaatg	360
aatttgtgca	tcgagcgcgg	agcggaaagta	gtccgtcagt	gtcatgccga	aggggtgcaat	420
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ggcgtccgct	ataaatataa	tgtattgcag	caggcactgg	accattatca	gggagacgga	600
agcgcacacg	acctgatccg	ctatttcggc	ggactggaaa	tggtaatggc	aataggcgcc	660
atgcttcagg	cagccgagtt	aaagatgatt	atcctggtag	acggattcat	catgacaaac	720
tgcatecttg	cagcctccca	actttaccct	gaggtattgc	attatgccat	cttcgggtcat	780
cagggagatg	aatccggaca	taagctggta	cttgatgcca	tgggagccaa	gccattactg	840
aatctgggtt	tacgtctcgg	agaaggaacc	ggcgccatct	gctcctatcc	tatcattgac	900
tctgccatag	ggatgatcaa	cgagatggac	aactttgcac	atgcagccat	caccaaatat	960
ttctaa						966

&lt;210&gt; 676

&lt;211&gt; 621

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 676

agccatgcaa	agataaatat	tgtttccgaa	ataccocatag	caatggcaca	atattttgca	60
tcggggaatg	gaaatataaa	atattaccgt	acattttgcta	acaaaaata	cacagataga	120
ttcatgaaac	agatcatact	catcacccga	ggagctcggt	cgggcaaaag	cagctatgcc	180
gaacgcctgg	cgttatccct	ctctccta	ccggtttact	tggccacctc	acgtatctgg	240
gacgaagaat	ttcgtcaaag	ggtattgcgc	catcaagcca	accgcggacc	ggaatggacc	300
aatatagagg	aagaaaaaga	attgagccgc	cactcttttg	aagggcgtgt	agtgtgatc	360
gattgtgtaa	ccctctgggt	caccaattat	ttctttgatc	tccaagcaga	caccgacaag	420
gcactgactg	ctgttaaagc	cgagtttgac	cgactgacac	aacaggacgc	gaccttatt	480
tttgtcacca	acgaaatcgg	tatgggagga	acttcagaaa	acctgatata	acgaaagtcc	540
actgacatgc	aaggatggat	gaccagat	atagcctccc	gggccaatcg	ggtaatacta	600
atggaacggg	gattcctgtg	a				621

&lt;210&gt; 677

&lt;211&gt; 1509

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 677

aagaagaaaa	atataatggc	aaaagaactg	aaagacctga	ccaaacgcag	cgaaaactat	60
tcgcagtggg	acaatgattt	ggtgggtgaaa	gccgatttgg	cagaacaatc	ggctgtgcgt	120
ggatgtatgg	tgattaagcc	ttacgggatac	gctatttggg	agaaaaatgca	gcgtcagctg	180
gacgacatgt	ttaaagaaac	cggacacggt	aatgcttatt	tcccgttgct	gattccgaaa	240
tcattttctga	gtcgtgaagc	tgaacacgta	gaaggctttg	ccaaggagtg	tgccgtagta	300
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&lt;210&gt; 678

&lt;211&gt; 507

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 678

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&lt;210&gt; 679

&lt;211&gt; 345

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 679

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 gtagaacaga acaagaagat tgacgcgga acccgcaagc agatcatagc tacggcgag 360  
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 ctacttttat ataaggacag ttagtgcact tctcaacgta aagatgaagt ggaagccatg 480  
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 <212> DNA  
 <213> B.fragilis

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 agtaagaagt atcattcaat aattaaagat tacgcagctc tgatagaaga tttaaaaaag 180  
 aatccgcata taggggtaga cctgggaaac ggcatacgaa aagtacgaat ggctatagcc 240  
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 agcgtagaag aaggcagagt taccctactt accatttatg acaaatccga ccgggaaaat 360  
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 <212> DNA  
 <213> B.fragilis

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 <212> DNA  
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&lt;210&gt; 684

&lt;211&gt; 1743

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 684

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&lt;210&gt; 685

&lt;211&gt; 576

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 685

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&lt;210&gt; 686

&lt;211&gt; 783

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 686

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tag						783

&lt;210&gt; 687

&lt;211&gt; 978

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (704)

&lt;223&gt; Identity of nucleotide sequences at the above locations are unknown.

&lt;400&gt; 687

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978

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<212> DNA
<213> B.fragilis
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[illegible]

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3. 女性人口	人	622,222	4. 0歳人口	12,345
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7. 3歳人口	人	9,012	8. 4歳人口	8,901
9. 5歳人口	人	7,890	10. 6歳人口	6,789
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&lt;210&gt; 690

&lt;211&gt; 1347

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 690

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&lt;210&gt; 691

&lt;211&gt; 2466

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 691

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&lt;210&gt; 692

&lt;211&gt; 870

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 692

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870

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 <213> B.fragilis

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 <212> DNA  
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 <213> B.fragilis

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 <213> B.fragilis

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<212> DNA  
<213> B.fragilis

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<212> DNA



<210> 703  
 <211> 1170  
 <212> DNA  
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 <212> DNA  
 <213> B.fragilis

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&lt;211&gt; 2367

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 705

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 <213> B.fragilis

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&lt;210&gt; 709

&lt;211&gt; 870

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 709

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&lt;210&gt; 710

&lt;211&gt; 579

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 710

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&lt;210&gt; 711

&lt;211&gt; 597

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 711

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&lt;210&gt; 712

&lt;211&gt; 2031

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 712

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&lt;211&gt; 759

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 713

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tggatttctt	taggcaggca	agtagcctca	gaattaacat	tgcactatga	caatataccc	660
caaaattcag	tactttggct	tcggaattta	tcaagaggga	gagaagaaac	cgtatttcga	720
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&lt;210&gt; 714

&lt;211&gt; 948

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 714

aaaagaatta	aaatggaaat	ccattccgaa	agaaagaaaa	gacttagttt	atccctgctc	60
ttcaaaataa	taaaagatac	agtttgggga	ttcatagatg	acagcgttat	gaggttgagc	120
gcttcattag	cctatgcgac	tttgttttca	attattcctt	ttctttccct	tctagtcact	180
gtcgggtgtct	ttttccatat	ggattttggc	aatcaacttt	atgtccaact	acaaccgatt	240
gtgggccccg	aagttaccga	ggcccttcgt	tctattatag	aaaatgcaga	aaatacacag	300
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tggggaattt	ccttttatat	aggaatagcc	aatgtgggga	ccgtctatgg	ggctgctgcg	780
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gaattttacca	aagcatgggc	aaacgaaatg	ggaagtaaaa	ttttccccga	cgaatatgca	900
gtagccacca	aaaccattga	aatacacgaa	gacaagccta	tcgaataa		948

&lt;210&gt; 715

&lt;211&gt; 192

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 715

aaaacatcta	acattcatta	tttatctctt	ttaaaatatc	tggtctctga	ttataaacgg	60
agacagagtc	cggcagatat	tcttgcttta	gtaatgacga	cataccatcc	tcattctctt	120
ctacccaaac	tggtgtctcc	catcggtctt	cttaaagatc	cgttcgctct	ttccctcgt	180
atgattcttt	aa					192

&lt;210&gt; 716

&lt;211&gt; 2181

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 716

tttttttata	aactaatgaa	cagactcaaa	ctttacttac	tggtcgctgac	tggtcggtggcc	60
gtttgttccg	caaaggcgga	cgaagggtatg	tggttactgc	aattaatgca	gcagcaaacac	120
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gacatccgtt	atgtactctt	tattctcgaa	aagctgggag	gatgcggaca	tttgattaac	2160
gaaatgacga	ttgttgaata	a				2181

&lt;210&gt; 717

&lt;211&gt; 1044

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 717

gagttaatcc	tgatttttga	ttggcgaaat	atgattttata	gaaatttggt	tgggattatt	60
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tattattcgt	cttttctctt	gaaagatact	actgttatgc	tttctaaagt	agaaatggat	180
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acgtcaacta	cagattctat	ttatgctgtg	tttgcttato	cggaaatgaa	atTTTTgagc	300
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ttggtaaaaag	atgattcgtt	atatttatat	catttaacag	ataaggattt	gttgcagaaa	420
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aatgataaaa	tgtatacagc	tcattgcata	acggatcctt	cttataatga	tattagggtta	540
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cggattttatg	atttgagtgc	cggattattg	cacgatgtat	gtcttgatta	tgcatctaata	780
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ttccttgatt	tagatataaa	ttag				1044

&lt;210&gt; 718

&lt;211&gt; 798

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 718

atattgataa	aatgtttcat	ttgcatacga	atccgttgta	cctttgtcgt	cgaaaaagtt	60
gtgtatccta	tgaataaagt	attgcctttt	ttacttttgc	tttttgtttt	tacctcttgt	120
agtcgcaagt	ataagattga	aggcgccctct	tctgtaacca	gtctggacgg	taaaatgctt	180
tttattaaag	tacttcagaa	tggcgagtgg	ctcaatattg	attctgccga	agtgggtgat	240
ggactatttt	cgatgaaagg	taaagtccat	tcggtagtaa	tggctacact	ctatatccgc	300
gacgaaagca	tcattgcctt	agtgattgaa	aaaggtaata	ttcagggttc	aattacaaat	360
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gcgaccttga	accattag					798

&lt;210&gt; 719

&lt;211&gt; 1158

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 719

ggaaaaacaa	actatatcca	taacaatagc	atcatgaaat	ttctgtttat	tgtgcaagga	60
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aattattttc	cgatatga					1158

&lt;210&gt; 720

&lt;211&gt; 282

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 720

agtggtaaaa	acaggaaaga	aacagatcaa	aaaaagagga	atttctttta	tttattttgt	60
aaaatagact	gtaaatcgct	gaatgggtctg	atattgttgt	tttttgaccg	gatattagct	120
tccttaatct	tattttttct	caaactttgt	aaggtaaata	aatgtagaaa	gtatgactat	180
aatgaagttg	agactgggag	ttcgtgggat	gatgtggcta	accttggtaa	ttatgatgtg	240
gggcatacata	tcttgctgaa	ctcaagaaga	gaaatgtctt	ga		282

&lt;210&gt; 721

&lt;211&gt; 873

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 721

atatttatga	aatacttata	tgtgttatta	gctttttctt	ttttgttttc	ttgtaaagat	60
gagaataaaa	aacatgcgga	atctgttttg	agggaaatga	tgaataagga	aattgttttc	120
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gaatatccgg	agcattttta	caagacgatt	actgtctact	gtaactcgcc	tgtttcacct	840
ttgcaattga	aaataaaaag	agatgctaaa	taa			873

&lt;210&gt; 722

&lt;211&gt; 411

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 722

tcggttatga	atttgaatga	ggtagatata	cattatttaa	ttgcagccat	tagtgtgata	60
acttcggcat	tggtgtttta	cacaatagga	gtgtggggag	agcgattgca	gaagagggtg	120
aaattttggc	atctgggtatt	ttttttgttg	ggactgctgg	ctgattctgt	gggaacggct	180
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gggagtgaaa	gagccaagga	acattttcaac	cgtttcagta	ttgtggtgtg	gtgcatttgg	360
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&lt;210&gt; 723

&lt;211&gt; 1068

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 723

aatctcatga	aatactgtct	gacattttctc	tttcttttgg	taatctttac	tgggtgcact	60
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acagatgggtg	gacaatatat	ttatgttttc	aacttacaag	gggaaccttt	atgtaaatat	960
accttagatc	gttatatcac	aggtttccat	gttgatgaaa	gaaataagac	tattacagca	1020
acagatgtta	ataacgacca	accatttgtg	gagttccgct	ttggctaa		1068

&lt;210&gt; 724

&lt;211&gt; 564

&lt;212&gt; DNA

&lt;213&gt; B. fragilis

&lt;400&gt; 724

gacgaaatga	aaaagtttag	atgtactgtc	tgcgggttatg	tttatgaagg	tgacgcagct	60
cctgagaaat	gtcctttgtg	taaagetctc	gcaagcaaat	tcgtagaagt	tggtgaagaa	120
gaaggtggtg	cactcacttt	tggtgacgaa	cacgtaatcg	gtgtagctaa	aggttgtgac	180
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aaccgctatt	tcggtaaaga	ataa				564

&lt;210&gt; 725

&lt;211&gt; 2172

&lt;212&gt; DNA

&lt;213&gt; B. fragilis

&lt;400&gt; 725

ataatgatga	aaagaaactt	attatctgct	gcgtttgcac	tgatggcact	ggccgtcagt	60
gctgacgaag	gaatgtggat	gctgactgac	ctgaaagcac	agaatgaagc	tgccatgatg	120
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gattatctga	caaatggatt	ctgggcaatg	aaccggaacg	aagagttacc	ctgcaaaggg	360
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 <212> DNA  
 <213> B.fragilis

<400> 726						
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 <211> 1503  
 <212> DNA  
 <213> B.fragilis

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&lt;210&gt; 728

&lt;211&gt; 2013

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 728

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&lt;210&gt; 729

&lt;211&gt; 1032

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 729

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&lt;210&gt; 730

&lt;211&gt; 777

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 730

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&lt;210&gt; 731

&lt;211&gt; 195

&lt;212&gt; DNA



## &lt;213&gt; B.fragilis

## &lt;400&gt; 731

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gaggatttta	tatag					195

## &lt;210&gt; 732

## &lt;211&gt; 582

## &lt;212&gt; DNA

## &lt;213&gt; B.fragilis

## &lt;400&gt; 732

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ctaaccttgg	taattatgat	gtggggcatc	atatcttgtc	gaactcaaga	agagaaatgt	120
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## &lt;210&gt; 733

## &lt;211&gt; 1026

## &lt;212&gt; DNA

## &lt;213&gt; B.fragilis

## &lt;400&gt; 733

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aagtaa						1026

## &lt;210&gt; 734

## &lt;211&gt; 351

## &lt;212&gt; DNA

## &lt;213&gt; B.fragilis

## &lt;400&gt; 734

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 <211> 1056  
 <212> DNA  
 <213> B.fragilis

<400> 735						
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<210> 736  
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 <213> B.fragilis

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<210> 737  
 <211> 2175  
 <212> DNA  
 <213> B.fragilis

<400> 737						
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&lt;210&gt; 738

&lt;211&gt; 738

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 738

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&lt;210&gt; 739

&lt;211&gt; 1395

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 739

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&lt;210&gt; 740

&lt;211&gt; 1431

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 740

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&lt;210&gt; 741

&lt;211&gt; 720

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 741

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&lt;210&gt; 742

&lt;211&gt; 1482

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 742

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&lt;210&gt; 743

&lt;211&gt; 1269

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 743

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&lt;211&gt; 504

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 744

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&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 745

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&lt;210&gt; 746

&lt;211&gt; 3165

&lt;212&gt; DNA

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&lt;213&gt; B.fragilis

&lt;400&gt; 746

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&lt;211&gt; 1251

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 747

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&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 748

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&lt;211&gt; 849

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 749

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gataccccgt	ttgccgtact	actgtcgcga	tgttttgtaa	agcagaaaga	tcctgtacg	840
ttggttttaa						849

&lt;210&gt; 750

&lt;211&gt; 906

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 750

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gattcacgtt	attgggggaat	gttgcccga	tcatatattg	taggtagggc	atttacaata	840
tggcggtcgg	acgatccttt	acgtggaaag	attcgttgga	accgggtatt	taaaagaata	900
aaatga						906

&lt;210&gt; 751

&lt;211&gt; 1278

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (524), (1246), (1269), (1270), (1271)

&lt;223&gt; Identity of nucleotide sequences at the above locations are unknown.

&lt;400&gt; 751

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cagccggcag	tcatacctgat	gtccggtttg	caagggttcg	gtaagaccac	tttctcgggt	360
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ctccaaaaga	agattgccaa	gaaccagttc	gacttcaacg	acttcctcag	ccagatgtcc	1020
cagattaaga	aaatgggttaa	tctgaaagag	ctcgtttcaa	tgattccggg	tgtgggcaag	1080

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<210> 752
<211> 651
<212> DNA
<213> B.fragilis
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<210> 753
<211> 600
<212> DNA
<213> B.fragilis
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<210> 754  
<211> 1023  
<212> DNA  
<213> B.fragilis

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gacctggtaa	ttgtagctac	caccactccc	gattatcggc	ttccttcaac	ggcttccatt		300
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ggtttcttat	atgcattaga	aaccggggct	aactttatcc	gttcgggaaa	atacaaaaaa		420
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caccaagaag	gcagctacagt	attttaaatat	gctgtagcca	atatgtcaga	tgcattgtgag		720
tcgatcatcg	aaagaaacca	actgacaaaa	gatgaaatag	actgggtcgt	tcctcaccag		780

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 gatttcgaaa ataaactcaa aaaagggtgat aatttgattt tcaccgcttt cggagccgga 960  
 tttgcctggg gagctgttta cgttaaattg ggatatgatg gcaagacaaa taacgcatgt 1020  
 tag 1023

<210> 755

<211> 864

<212> DNA

<213> B.fragilis

<400> 755

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 caatcgtcca actttccggt tgagggtactt tttctccgtg acgatgatat tccccaatct 180  
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 tatcccgga ttttagatgc ttttatgaaa agtaacgggg tgaaggctga agtgcattgc 420  
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 gtcagttccg gttctactct agtcagcaat cgctgaaag aagtggaggt cgtaattgaga 540  
 tcagaagctt tgctgatagg caacaagaat atgagtaagg agaaaaaaga gatattggac 600  
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<210> 756

<211> 462

<212> DNA

<213> B.fragilis

<400> 756

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 cgtctgggta aggcaagctt ggtagatacg ttttgctatt ttgcgaaagg cgagttgtgg 180  
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 gacgccggat tcaccattgt ccctgtgcgt ttgtttatta atgaaagagg tttggccaaa 360  
 gtgggtgtag ctttggctaa aggtaaaaag caatatgata aacgggaggc tttgaaagaa 420  
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<210> 757

<211> 477

<212> DNA

<213> B.fragilis

<400> 757

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 gttatcgtga tgaataaaga gatgtttatc aacgatgtct ttgattacca gaattcaaaa 180  
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 ccctgccgca tgacagcccc gattatgaaa tcgcttgcta aagaatatga cggaaaaatc 300  
 gtaatatata aggtgaacgt ggataaagaa aaggaactgg ctgcactatt caatgcaaca 360  
 agtattcccc tctttgtatt tatcccaatg gagggcgaac cccaactgtt tcgtggagca 420  
 gcagataaag ccacttataa aaaagcaatc gacgagttcc tggtgaaaca gaaatag 477

<210> 758

<211> 579  
 <212> DNA  
 <213> B.fragilis

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 gaggtgccga aaggatggaa acgtccttct gctgtgcatt cttgcaatga tgaacctttg 180  
 aaacgcgtta atgggaaata cgaaactaca aagtttatga gagtatattc aaaacgtaaa 240  
 gatcgttgtg gtgcggtatt gaccattatg gaaatacaaa aatgtgcac ttttcaggaa 300  
 atattttaagg aagacagtat ttgggcatcg acggatacta cgcagggtgaa ggtgatatat 360  
 aagtctgtca atagtaagaa tgggggttaaa aagatggctt ttacttcgta taaggcagag 420  
 cgtcatccgg aaactaacga attatctgct ttgcaaaagg ctgaatggta tttgcagggg 480  
 cgtgaaaatg tatattatat cagttttacg tcttgctcat tgtttttaga actgctaccg 540  
 cagattaaag atattgtggc gtcgttaaag gaactttaa 579

<210> 759  
 <211> 1458  
 <212> DNA  
 <213> B.fragilis

<400> 759  
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 acagcagtat ggattccccc cgcttacaaa gccgacgaac aacaagacga aggttatgca 180  
 acctacgatt tgtatgatct cggcgagtct gatcaaaaaag gaaccgtaag aacgaaatat 240  
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 tatctggatg tagtactgaa tcataaggca ggagggtgatt tcaactgaaaa gtccatagtt 360  
 gtagaagtcg atcccaatga tagaacccaa gcattaggaa aaccgttcga aatacagggc 420  
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<210> 760  
 <211> 477  
 <212> DNA  
 <213> B.fragilis

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 ataactatat ttgccccctg taaacgaggg ctctatatat atcaaaagaa aggaaaaaatt 180  
 atggaaaaat ttgaagattt aatagctccc ttttagtaga ttttttcgca 240  
 gaatggtgcg gccctgtaa agcaatgaaa ccgattcttg aggatctgaa acagcaggta 300

ggcgagaaag	cccgtattgt	aaaaatcgat	gtggacacac	acgaagaact	agctgtaaaa	360
tacagaattc	aggctgtgcc	gacttttatc	cttttcaaaa	agggagaagc	tgtctggcgc	420
cattccggtg	tgattcaagc	cagcgaactg	aaaggagtta	ttgaacaata	cacataa	477

&lt;210&gt; 761

&lt;211&gt; 1014

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 761

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gaatctgata	ggattatgca	ttatgctcaa	tttgagcata	ccataaattt	gaaatccgat	120
agaatacagg	ttccttcggt	gttattgtat	ccacggagtt	tagttttatg	tgatagtaat	180
ctgatagtat	tcaatgaaaa	aatggatact	atgtttcaat	gcttccattt	gccggatttg	240
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catattagtg	tcaagaaaaga	caaagctatc	gtacagactt	cgactttaaa	ttatggattt	420
aattgtttta	atgacttgat	aagtatttcc	gatagcagtt	attgtttgtaa	tggagggttt	480
gagaatgaaa	aagaattttag	gtttctttat	cctgacggaa	atcatgaatc	atggggagaa	540
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&lt;210&gt; 762

&lt;211&gt; 1050

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 762

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gattttgcat	tggcgaaaata	tgattttatag				1050

&lt;210&gt; 763

&lt;211&gt; 1797

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 763

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tacctttttta ttgcttttatt tagtctttta gttgtatcat gttattcgac gccggatgga 120
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attaaatttg ctggttggtta ttatggaggc cactctgaag atcttgtagc taaaggaaaa 360
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<211> 312  
<212> DNA  
<213> B.fragilis

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atctctgtga tccgcaaaat tgaagtcgga ttgaatatga atccgggaga aacctggaat 180
attgcgttgt atagtgaatt tgataatctg gatgatgtga agttctatgc taccatccc 240
gagcatgtgg ctgccggtaa gattttggca gagacaaaag aaagtcgggc ttgtgtagat 300
tatgaatttt ag 312

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<210> 765  
<211> 213  
<212> DNA  
<213> B.fragilis

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agaaatgtat ttggtagagg attttatata ggacaagagt ttatagcata tcagatgctg 60
aaactgagaa aaaacttcat tgataatcaa aagagacagg gtacgccgtt tgaacggaag 120
tgtaccctgt ctttttatta ttcttctaca atatccagct cttgatgat gtgtgaggca 180
cctgcatact tatcaataat aaatagagta tag 213

```

<210> 766  
<211> 864  
<212> DNA  
<213> B.fragilis

<400> 766  
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 acttcatgta tggattccgg agaaagcggg cctcagcagt gggccggtgt ggtgaaagtg 180  
 aatgatagaa tgggttatgt tacattcaca gatgctgccg gtacagagct gatccctact 240  
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 ggtcaggacc tctcaacaaa tcttaagtca attaaaatta cacttttagc agatcctaca 360  
 ggaattgatg ctacagcaat aaccactccg aaagtagaat caagtgatgt gactactaat 420  
 gcacctgttg gttcgttgag ttttgcata ggatattcaa ctgtggcccc atttcagttt 480  
 agtgaaaata cgattgtatt accagtactt tatcgtgtga aaaatgtgac tactacagaa 540  
 gatattaaaa atgagcttgc taaacatact tttactcttg tctgctatac agatgatatt 600  
 aaatctggtg ataccatttt gaaactttat ttaogctata aagttgagga tgaacctgct 660  
 gctattgctg agcgtgcaac acgtacttcc agctttaagg cttatgaaat cagccaaatc 720  
 ttaagagaat atactctgaa gagtggacaa actaaacctg ctaaaataac tatagtagca 780  
 cagcaaatg agtacaacaa taagttggaa gatacttcta ctatagagaa ggtatatgaa 840  
 atagaatata aaactgcgga ataa 864

<210> 767  
 <211> 393  
 <212> DNA  
 <213> B.fragilis

<400> 767  
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 gaagaagcga gtgcgtccat caaccggttg attcctatatt ctgcagatat tgatggcact 180  
 actttattta ttgaatttac aaaggttata ggtaatgtgg atattacagt gaaagatgat 240  
 accaaaaaag aagttttatc atcttctgtg gatgtaactg ctgctaatac agctacttgc 300  
 ttctctattg ccgatttagc accgggaact tacctgcttg aatttaccaa ttcgaatggc 360  
 ggttatgtat atggacaatt tattgtagaa taa 393

<210> 768  
 <211> 714  
 <212> DNA  
 <213> B.fragilis

<220>  
 <221> unsure  
 <222> (613)  
 <223> Identity of nucleotide sequences at the above locations are unknown.

<400> 768  
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 cccacacccg gaatcattga agcagagctct ttcagattac ccattttctt aatctgggac 120  
 atctggtgga ggaagtgcgt gaagtgcgaac tggttcttgg caatcttctt ttggaggcgt 180  
 ttagcttctt ctctgctata ttgttctgt gcgcgttcca ccaacgaaac gatgtcacc 240  
 ataccagga tacggtcggc catacgggca ggggtggaact ggtcgatggc atcgagtctc 300  
 tcgcccgtac ctacaaactt gatagggttg ttcactaccg aacggataga gagggccgca 360  
 ccaccgcggg tatcacgcgc gagcttggtc agcaccacgc cgtcaaagtc gaggcgttcg 420  
 ttgaactctt tggtgtgtgt gaccgcactt tgctcgggtca tagagtctac cacgaacaga 480  
 atttcgttgg gctggatggc ttctttgatg gcagcgatct cattcatcat ctgttcgtcg 540  
 actgccagac gtccggccgt atcgacaatt accagatcgt atcccttggc acgtgcttct 600  
 ttgatggcat tcntggcgat ggaaaccgga tctttgctgt cgatctccga gtacatcggt 660  
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<210> 769  
 <211> 237  
 <212> DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 769

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cttggttcttt	gcaaacaaaa	cacttgtttt	aacactctgt	taaatcaagc	attttatata	120
ctgaaagtga	agtcggttaa	gttggtgata	cagagtggat	cggtgtgtgt	tctagttttt	180
ctgctatcct	gcttgtccgg	gtgtgatgat	agatgggtatt	tatcaaaacc	acaatga	237

&lt;210&gt; 770

&lt;211&gt; 1149

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 770

tattcatcgt	taaataaacg	aattatgata	aagagaataa	agatattagc	tacagggtgca	60
ctgctattgg	caggattggg	tgcttgttca	ccttccggaa	agaaaacagg	agcggattcg	120
actgtcgaca	ctctgcgaac	ggcggaacaa	gtgaattttac	tgaataatct	acggaagggtt	180
cccacacagg	ggattatggt	tggtcatcat	gacgatccgc	tttacgggtg	cggctgggaa	240
ggtgacgaag	atcgcaagtga	cgtgaaaagt	gtgtgtgggtg	attatccggc	tgtcatgtcg	300
tttgatctgg	gccacattga	actggaaaga	gagaaaagtc	tgataaacgt	gccgtttcgc	360
aaaatacgtc	aggagacgat	taatcaatat	aaaaggggag	gagtggtttc	ttttagctgg	420
catctcgata	accccttgac	cggtaaagat	gcgtgggatg	tgagtgatac	gacggttgta	480
gcttccatac	tgcccgggtg	tgtacatcat	gcgaaattta	taagttggct	cgatgctgtt	540
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ctgctttatg	cttattccac	gggatcggaa	cccaaagatt	cgactgctta	tctggagcgt	780
tatccgggag	atgatatcat	cgatctgggtg	ggctttgaca	cctatcagtt	cgaccggaca	840
caatatatgg	agcaattgga	taagtcgctt	gctatcctga	ctgaagtagg	taaggcgcac	900
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acacagactc	tctatccggt	aatcagcaag	tatcctatca	gttatgtgtt	ggtgtggcgc	1020
aatgcacgtg	aaagggtaaa	ccactattat	gctccttate	ccggacaggt	gtccgccgat	1080
gactttgtga	agttctaccg	tgaaccgaaa	actctgtttg	tgtcggacgt	gaagaacctt	1140
tataaatag						1149

&lt;210&gt; 771

&lt;211&gt; 1560

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 771

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tgccgccgcc	gaatgtctgt	tcagtacgtt	tgacgcac	cgtgcggtcg	gagagcaaaa	120
acagccccgt	tggtcgactt	ctatctccct	gctgattttac	ggaatccttt	tcctcggaac	180
tctatttttt	atcggagatt	tcttaataaa	caagttatga	caaagaaaaa	tctactcaaa	240
ggaatctgcc	tgctatggct	attgctggca	gtaactcctg	tattgcaagc	ccaggatcgt	300
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atacttgtcc	ttcaaggcga	acgtgattat	cagggtacca	tgcaagattt	cgaattatgg	1380
caatccgccc	tggcaaagca	tccgaatgog	atattttaat	cttatccccg	actcaatcat	1440
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&lt;210&gt; 772

&lt;211&gt; 1569

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 772

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aagacacact	acaacgaggt	atacgaaact	cctaataatg	agcgccttgc	caaacaaggt	240
atgatgttca	cccaagccta	tgccagcagc	atcagttcgc	ccaccgctg	tagcctgatt	300
acaggaacta	acgccgcgcg	tcaccgggtg	accaactgga	catatcccaa	aggccagcaa	360
acagaccgcc	cgagcgatgt	attcaatgta	gcggactgga	atgtaaaccg	ggtttgccag	420
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gtaggcggcc	aacgcccttc	attcaaagca	accggaaagc	catgcccatt	gccggacgaa	1560
atcaaataa						1569

&lt;210&gt; 773

&lt;211&gt; 321

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (304)

&lt;223&gt; Identity of nucleotide sequences at the above locations are unknown.

&lt;400&gt; 773

aaacgaatta	cgaatggatg	ctcctgtgga	aagctgcatg	gctacccatt	cttaatcccc	60
caatacgcga	tagaaccgca	atttgcaatc	acaatgaaga	taattattgc	tggtgccgga	120
gctgtaggca	cccatttggc	taaattactc	tcacgcgaga	aacaggacat	catcctgatg	180
gacgatgacg	aagagaaact	aagtacgttt	agttctaact	tcgacctgat	gactgttacg	240
gcctctcctt	cgtccatata	aggactgaaa	gaggtaggca	tcaaagaggc	agacctcttt	300

attnngcggtc actcccgatg a

321

&lt;210&gt; 774

&lt;211&gt; 1410

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 774

aataagaaaa	ccaagaatag	aatgactgcc	atgattacac	tgaaagagaa	gatcgggttac	60
ggactgggcg	atatggcttc	gtccatgttc	tggaaactgt	tccgggtccta	tctgatgatt	120
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acctattcct	tgatgatgat	ggtatatctg	gctatcaatg	tgcccttatgc	ttcactgctg	420
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gagaagagaa	gaaaggctat	tcaatcataa				1410

&lt;210&gt; 775

&lt;211&gt; 1995

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 775

aaagcaagaa	caatgaaaaa	gaatctatta	tatatTTTTa	gttttagcaag	tgTTTTatgc	60
tcttgcaatg	actttctcga	caaagagcca	ctagatgccg	tacctaccga	caaatatctt	120
ttggcagaaa	gcgattttagc	agcctattcg	gctaacttat	atgatcaact	tccatcccac	180
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<211> 651
<212> DNA
<213> B.fragilis
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<210> 777  
<211> 1914  
<212> DNA  
<213> B.fragilis

<400>	777					
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gcagtacag	tactctcgta	cgtcacggcc	gtacattact	tctcggcacc	ccgtctggca	180
gacggaacgt	ttgccacact	cattccttat	aactttgaat	ggcttccgtt	cacggaাকা	240
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&lt;210&gt; 778

&lt;211&gt; 1320

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 778

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&lt;210&gt; 779

&lt;211&gt; 1191

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 779

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atcaccggac	aggaggaatt	aataccccgg	gccgataaag	gggctattct	gaatgcgcgt	180
attttatgga	cctattctgc	tgccatctgt	ctgctgggta	gagaggagta	caaagagatg	240
gcaaaccttg	ccaaacgata	ccttatcgac	cacttttatg	attccgagtt	cggaggggtc	300
tactggtcac	tcaattatag	aggtgagccg	ctggatacca	agaaacagat	ttatgccatc	360
ggctttgcca	tttacggact	gagcgagttc	catcgggcta	ccggagatcc	ggaagcattg	420
atgtatgccg	tccgtttatt	caatgatata	gagtcacaca	gctttgatgg	gctgaagaac	480
ggttattgtg	aagcgcttac	ccgtgaatgg	aacgaaatag	ccgatatgcg	cctcagcgag	540
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aaatgtcctt	atcataacgg	acgtatgtgc	atcgagctgt	tgggcgaata	a	1191

&lt;210&gt; 780

&lt;211&gt; 1809

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (1138)

&lt;223&gt; Identity of nucleotide sequences at the above locations are unknown.

&lt;400&gt; 780

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ggagtatact	actcctacca	tctgcattat	caggaacagt	tccagatggt	tctctttaca	180
tccgactatt	ttgtcgaaca	agtatcccat	cccgggggaa	tggcgggacta	tctgggaggc	240
tttctcaccc	aattctatta	ttattcgtgg	gcggggagccg	ctatcttgac	cgggtgcaata	300
gggggtattc	acaggttgat	ggtttggatt	gcaaatcgcc	tgggcggaca	cccggcatgg	360
tatccgctta	ctctgttacc	ttctttatgt	ttcttttattc	tgttctgcga	cgaaaatttt	420
cttctttccg	gagccatctc	tgtgggaatg	gtgctgggag	cactcatcgg	atatacattt	480
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tttagataa						1809

&lt;210&gt; 781

&lt;211&gt; 777

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 781

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catatcttgc	cgggaggttc	ttatcatgct	accttcaaag	ccgatttgaa	gatcattgct	180
gattttgcac	acaatgcaaa	gggcgatgac	gcagagtga	ttccgatcat	attccgtcct	240
tggcatgagt	ttgatggtaa	ttggttttgg	tgggcaaaaa	atcattgttc	ggttgaagaa	300
tttaaaaagt	tgtatcgggt	tacagtcact	tatctcagag	attctttaga	ggtgcataac	360
tttttatatg	cattttctcc	ggactgtggt	ttcactactg	aggccgaata	tctgaaacgt	420
tatccgggag	acaaatatgt	agatgttgta	ggtatggata	attattggga	ttttcgtccg	480
tatgggggag	atacctccct	ggtagtctctg	aaagcccgtg	tccttacgca	atatgcgcaa	540
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&lt;210&gt; 782

&lt;211&gt; 1197

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 782

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tatccggagt	ggaccaag	atggtgcaac	ttcaacccgc	aagagacaga	gtattga	1197

&lt;210&gt; 783

&lt;211&gt; 1134

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 783

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gaatattccc	tttttggggg	tgagggagga	acgagagagg	cacatttgat	gtttcatgtc	120
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cctgatacac	cgatacagtt	tgttggtgct	gctgtatgcc	1080
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		atgaatcatt	ctga	

&lt;210&gt; 784

&lt;211&gt; 1197

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 784

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&lt;210&gt; 785

&lt;211&gt; 423

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 785

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aaaagaattg	aattttactta	caggaaaaat	tccatgttgc	atataatcgg	ggaaatgtta	420
tga						423

&lt;210&gt; 786

&lt;211&gt; 483

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 786

aagatgaaaa	atgaagaata	tacatatcta	ggcggcctga	tgcaaggcat	cggctccctg	60
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<210> 787
<211> 3228
<212> DNA
<213> B.fragilis
```

<400> 787						
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tatgcggcgg	tagaacttca	gcggtattat	tatcagctgt	ccggacgctt	gttgtccatc	180
gatcatgaag	aagtaccgga	caggaaaacg	gaatttgttc	tgacaagact	ggatcatccg	240
ttagtgaagt	cttggagaga	caaaggagta	ttacctctga	agtcacatgcc	gggagagcag	300
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&lt;213&gt; B.fragilis

&lt;400&gt; 790

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 <222> (695), (706), (707)  
 <223> Identity of nucleotide sequences at the above locations are unknown.

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&lt;213&gt; B. fragilis

&lt;400&gt; 794

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&lt;210&gt; 795

&lt;211&gt; 660

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 795

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&lt;210&gt; 796

&lt;211&gt; 1497

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 796

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&lt;210&gt; 797

&lt;211&gt; 1596

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 797

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&lt;210&gt; 798

&lt;211&gt; 1611

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 798

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&lt;210&gt; 799

&lt;211&gt; 1011

&lt;212&gt; DNA

&lt;213&gt; B. fragilis

&lt;400&gt; 799

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&lt;210&gt; 800

&lt;211&gt; 1458

&lt;212&gt; DNA

&lt;213&gt; B. fragilis

&lt;400&gt; 800

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&lt;210&gt; 801

&lt;211&gt; 381

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 801

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&lt;210&gt; 802

&lt;211&gt; 198

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 802

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aaacctgaag	ggaaatga					198

&lt;210&gt; 803

&lt;211&gt; 1557

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 803

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&lt;210&gt; 804

&lt;211&gt; 756

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 804

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&lt;210&gt; 805

&lt;211&gt; 345

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 805

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&lt;210&gt; 806

&lt;211&gt; 519

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 806

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519

&lt;210&gt; 807

&lt;211&gt; 2799

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 807

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&lt;210&gt; 808

&lt;211&gt; 558

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 808

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&lt;210&gt; 809

&lt;211&gt; 3216

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 809

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&lt;210&gt; 810

&lt;211&gt; 2085

&lt;212&gt; DNA

&lt;213&gt; B. fragilis

&lt;400&gt; 810

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&lt;210&gt; 811

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 <212> DNA  
 <213> B.fragilis

<400> 811

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 <212> DNA  
 <213> B.fragilis

<400> 812

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 <212> DNA  
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<400> 813

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<400> 814

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&lt;211&gt; 1266

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 815

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&lt;211&gt; 1155

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 816

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&lt;210&gt; 817

&lt;211&gt; 2061

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 817

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&lt;211&gt; 1539

&lt;212&gt; DNA



&lt;213&gt; B. fragilis

&lt;400&gt; 818

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&lt;211&gt; 2463

&lt;212&gt; DNA

&lt;213&gt; B. fragilis

&lt;400&gt; 819

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&lt;211&gt; 1662

&lt;212&gt; DNA

&lt;213&gt; B. fragilis

&lt;400&gt; 820

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&lt;211&gt; 216

&lt;212&gt; DNA

&lt;213&gt; B. fragilis

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<212> DNA  
<213> B.fragilis

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&lt;210&gt; 827

&lt;211&gt; 1206

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 827

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&lt;211&gt; 1050

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 828

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&lt;211&gt; 1629

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 829

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&lt;210&gt; 830

&lt;211&gt; 1626

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 830

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&lt;210&gt; 831

&lt;211&gt; 501

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 831

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&lt;210&gt; 832

&lt;211&gt; 924

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 832

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&lt;211&gt; 501

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 835

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&lt;210&gt; 836

&lt;211&gt; 1191

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 836

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&lt;210&gt; 837

&lt;211&gt; 2022

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 837

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&lt;210&gt; 838

&lt;211&gt; 891

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 838

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&lt;210&gt; 839

&lt;211&gt; 1293

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 839

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&lt;212&gt; DNA

&lt;213&gt; B.fragilis

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&lt;211&gt; 795

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 841

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&lt;211&gt; 189

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 842

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&lt;211&gt; 1167

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

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&lt;211&gt; 360

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

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&lt;211&gt; 1296

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

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&lt;211&gt; 1074

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 848

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&lt;212&gt; DNA

&lt;213&gt; B.fragilis

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&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 851

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&lt;213&gt; B.fragilis

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gttgttatat	ctcctatatt	ttctgggtgg	ggaatgaaaa	ctaaagttgc	ggaggcattt	840
atgtatggaa	aggttgttgt	tggtagcaaa	gaagcattta	ctggatatgt	caattgttct	900
ggagttatgt	atgaatgtaa	tgacaagtat	gcattttgtg	aaatactaaa	tgagttattt	960
gtagataaaa	cacatactgt	gtttaatagt	aaggctcgtg	aaatatattt	gcaagaatat	1020
agttacgaat	cttcatatag	taaaattttc	agatggattt	ctcctatttt	gaaattattg	1080
aataaatga						1089

&lt;210&gt; 857

&lt;211&gt; 1401

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 857

ataatgaatc	aagacacaat	ttgcgccata	gcaaccgctc	aaggaggagc	catcggaagc	60
attcgtgttt	ccggtcctga	agctattacc	atcaccggcc	gtattttttac	cccggccaaa	120
tccggaaagc	tgtcgtagtga	acagaaacct	tatacgttta	ctttcggccg	aattttataac	180
ggagaagaaa	tgatagatga	agttcttgtc	agtctcttcc	gggctccaca	ctcttataca	240
ggggaagaca	gcaactgaaat	cacctgtcac	ggatcatctt	atattttaca	acaagtgatg	300
caactactga	ttaagaacgg	gtgtcgcag	gcgcaaccgg	gagaatatac	tcaacgagcg	360
ttctttaatg	gtaaaatgga	tttaagtcag	gccgaagccg	ttgccgacct	gattgcctct	420
tcctctgtct	ctacccaccg	tcttgccctg	agtc aaatgc	gaggtggctt	tagcaaaaga	480
ttgacaactc	tacgtgagaa	actgctgaac	ttcacttcaa	tgattgaact	ggagctggac	540
ttcagtgaag	aagatgtaga	gtttgcggac	cgttccgccc	tacgcgcgact	ggctgacgag	600
atagaagaag	tcattgcacg	tctggccaat	tcgttcagtg	taggggaatgt	cataaaaaat	660
ggtgtaccgg	tagctattat	cggagaaacc	aatgcaggaa	aatcaactct	actgaatgtc	720

ctgctgaatg	aagacaaggc	tattgtgaagc	gatattcacg	gcactacacg	ggatgtcatc	780
gaggatactg	tgaatatagg	tggtatcact	ttccgtttta	tcgatacagc	cggtatccgg	840
gagaccagtg	atacgataga	aagcctgggt	atcgaacgga	cttttcaaaa	actcgatcag	900
gcagagattg	tactgtggat	gattgattcg	gctgacgcaa	tttcacagtt	aacactgctc	960
tccgataaga	ttcttcctcg	ttgtgaacac	aaacaattga	ttttagtcct	taataaggta	1020
gaactgataa	atgaaactca	gaaaaacgaa	cttacctcac	aattttctga	gcatataggt	1080
tcggaaatag	aatctatatt	tattttctgcg	aaacaacggt	tgcacacgga	tgaactccaa	1140
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ggattggacg	caaatatctc	cggagatttt	ctgtcacaag	acatacgcg	atgtattttc	1320
cattttatccg	atatagcagg	ggaagtgaca	aatgatatgg	tgctgcaaaa	tatatttgcg	1380
catttttgca	tcggaaaata	a				1401

&lt;210&gt; 858

&lt;211&gt; 648

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 858

atcagcagac	aatgaataa	gagaggcttt	gtaagcagga	tcttacagaa	tttccggaag	60
cctgaagggt	ttttcgggaag	aatgatactt	tgggggatga	atacaggaca	tgcatcattg	120
gcgcaatggg	gaatgtcatg	tttgcaatgg	caaccggaat	ggagtgtact	cgatatcggt	180
tgcggtgggt	gtgccaat	gctacagata	ttgcaacggt	gcccgcgaag	gaaagcatat	240
ggcatagata	tttcatcgga	gagtgtcacc	tttgccgcta	aaaaaaataa	aaagtatctc	300
ggtacacgct	gctttatcga	gcagggagga	gtccaccgac	ttccctatcc	tgattatgcg	360
ttcgaatcg	tcactgcttt	cgagactgtc	tacttctggg	gtaacctgca	gcattgcttt	420
acggaagtgg	cgcgtgtgtt	aaagcccggg	ggatcgtttc	ttatctgttg	tgagataagc	480
gacccgtgca	ataaggcttg	gacgggactt	ggtgaaggga	tgagagattca	ttcctgtgat	540
gaactgaagg	cgattctttc	caaaagtggg	tttaccgata	cggccatatt	ccggacgaaa	600
aaagaagaac	tgtgcctggg	aagccatcgg	cagactgtgc	ggttgtaa		648

&lt;210&gt; 859

&lt;211&gt; 1569

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 859

aaaatgagac	aatatgtatt	attggcttgt	ctctctccgg	tagcatgcct	gatggctgct	60
accgggtcaga	agggaggaaa	agccaagcaa	aaaatcaatg	atcggcaact	tcctaatgtc	120
gtgtttatct	atgccgacga	cctcggttat	ggcgacttgg	agtgttatgg	tgcaagaagt	180
gtgcagactc	cgaatgtaaa	ccgtttggca	gctgaaggta	ttcgctttaa	caatgcgcac	240
gctacggctg	ctaccagtac	tccttcgcgt	tactctatgc	ttaccggaga	atatgcctgg	300
cgctgcgccg	gcactgat	tgacgacggc	aatgcaggga	tgattatccg	tcocgaacgc	360
tatacgatgg	ctgatatgtt	taagaatgcc	ggttacgcta	cggcggccat	cggcaaatgg	420
catttggggt	tgggcgataa	ggatggagaa	caggattgga	atgctcctct	gccgactgct	480
ttaggagata	taggttttga	ttattcttat	ataatggctg	caacagccga	tcgtgttccg	540
tgtgtcttta	tagaaaatgg	taaagtggcc	aattatgacc	cttctgctcc	gattgaagtc	600
agctatcgta	agccgatcga	gggggaaccg	ttgggaaaag	atcaccggga	attgctgttc	660
aatctgaaat	cgagccatgg	acacgacatg	gccatcgctc	atggtatctg	ccgtatcgga	720
tatatgaaag	ggggcgga	ggctttgcgg	aaagatgaaa	atattgccga	ttcaatcact	780
tcacatgcc	tcggctttat	ccgtgagcat	aatgacgaac	ctttctttat	gtatttggt	840
acaaacgatg	tacatgttcc	ccgtttcccg	cacgaccggt	ttcgtggaaa	gaacccgatg	900
ggattgctg	gagatgccat	cgtgcagttc	gactggagtg	taggccagat	catggaaacc	960
cttgataaac	tgggactgtc	agaaaatacg	ctaattatc	tgccagtg	caatggtccg	1020
ggtgtcgatg	acggctatca	ggatcgtg	gaagaattgc	tgaacggtca	tagtcccga	1080
ggaccgttgc	gtggaataa	gtacagtgtc	ttggaagg	gaactcgat	tcctgccatt	1140
gtaagatggc	cgaaggagc	tgcttcac	caggtttcca	acgctttggt	ctcgagatc	1200
gactggtttg	cctctttggc	ttcattggta	ggagccgggc	tgccgaagg	agcggcacc	1260
gatagcttta	actacctga	tacttggtg	ggcaaaaacc	agtccgaccg	atcctgggtg	1320

atagagcagg	cttccaatca	tacattatca	gtccgcacca	aggactggaa	gtacattgaa	1380
cccaatgacg	gaccggccat	gattacctgg	ggaccgaaga	tagaaaccgg	aaatctgagt	1440
acaccgcagt	tatatcacgt	ggtagacgat	gtggcagaac	agaagaatgt	agcttctctc	1500
catccggatc	tggtttttga	actccagaat	atattaagac	atgtccggat	gaaaaacctg	1560
aagccctaa						1569

&lt;210&gt; 860

&lt;211&gt; 252

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 860

gttcctgagc	aacaaaaagt	tgcccaggat	tttgccatgt	cagaattttc	acttatctta	60
gtgttgcaaa	aagaaaacaa	gcaaaactct	aatatgacat	ggcaaaaata	caaattaaat	120
ctgagaaact	cacacctttt	ggaggaattt	tttcaatcat	ggagaaattt	gactccatgc	180
tttcacccgt	tatcgactca	acactgggtc	agagatgcag	cagtatcttc	ggatatcagt	240
tcagcgagat	ag					252

&lt;210&gt; 861

&lt;211&gt; 375

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 861

gcctccatta	atgatgttca	tcattggtac	aggcaatata	tacgtattcg	tacctccgat	60
gtatctgtaa	agaggaatat	cgagatagtt	ggcagcagct	ttagctacgg	caagcgaaac	120
accagaata	gcgttggcac	ccaatttggc	ttttgtcttt	gttccatcca	atgccaacat	180
ggcatgatca	atgcctatgt	ggtcgagggc	cgacataccg	atcagatgcg	gagcaatgac	240
tttattgacg	ttctctactg	ctttctgtac	acccttggcg	ccataacgat	gtttatcacc	300
gtcgcgaggt	tcaagcgctt	cgtgttcacc	ggtcgatgca	cccgatggaa	cggatgcacg	360
tcccataatg	cctga					375

&lt;210&gt; 862

&lt;211&gt; 552

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 862

cgaacgatta	atgaaacctg	tacgatgaaa	aaattaataa	aactggtact	cttcctgatg	60
gtagcctatc	cactaacggg	tgctatcctt	tcggcttgct	cggagagagag	tgattgctcc	120
atgaccggac	gcccgatggt	ctacgccaaa	atgtatatca	tcaatccgga	aaccaaggct	180
gtactgaatg	acaccctcga	ttcattgagt	gtgacagcat	tcggaactga	ttcaataatc	240
atcaataacc	agaaaaaggt	acatgatatc	gctctcccac	tacgctatac	aagtgactcg	300
actattcttg	tgtttcatta	cacccggttg	ttaagagaca	caatggtgat	cctgcaaacc	360
aatactcctt	actttcagtc	gatggattgc	ggatacagta	tgaaacaaaa	tatcatcagt	420
attcatccga	ttgattatac	ggaaaccaat	aaaaagaaat	atcatagcat	agactctcta	480
tatatcaaat	caaatgcagc	taacattaat	ggaacagaaa	atctcaaaat	attctaccgc	540
tacaatcgtt	ag					552

&lt;210&gt; 863

&lt;211&gt; 246

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 863

gctacagata	aaaaaataga	caacattgct	atcaatccaa	aatcagctgg	agaaactaat	60
ctagctataa	caatggtcaa	tataaagcgt	aatgcttgcc	ccgacatttt	ctcaacagca	120
ttccacatta	aactatttaa	tgctgccaat	tttaaatttt	taatcatcat	atacaatcat	180
catctccaag	ttattaacaa	tataaaaagca	ttgatcattc	aaaaatacaa	tcaatattta	240

gtatag

246

&lt;210&gt; 864

&lt;211&gt; 966

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 864

tttataagta	aaatggatat	atctgttgct	gtaccattgt	tcaatgaaga	agaatccatt	60
ccggagcttt	ttgcctggat	tgaaagagtg	atgaaggcca	acggcttttc	atacgaagtt	120
atctttgtaa	atgatggtag	taccgaccgt	tcttgggaaa	ttatcgaaga	gcttcagaaa	180
cagtcgtcca	ctgtgaaagg	gatcaaattc	cgacgaaact	acggaaaatc	cccggctctg	240
tactgtggct	ttgaacgtgc	cgaaggaaat	gtggtgatca	cgatggatgc	cgacctacag	300
gatagtcctg	atgaaatacc	ggaattatac	cgtatgatta	ctgaagacgg	atatgacctt	360
gtttcaggct	ataaacagaa	aagatacgac	ccgctgtcga	aaactctacc	taccaaacta	420
tttaatgcca	cggcacgtaa	agtttcaggg	attcataatc	tgcacgactt	taattgcgga	480
ttgaaagctt	atcgcaaagc	tgttgtaaaa	aacatcgaag	tatacggaga	gatgcatcgc	540
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tattttctatc	tgtcgttgac	tgccatgatt	attggaacac	aactcttttt	ggcaggattt	900
cttggcgaa	tgatttcacg	caacgccccg	gaacgcaata	attatcagat	agaaaaaata	960
atataa						966

&lt;210&gt; 865

&lt;211&gt; 798

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 865

agtgattgca	aaaccatata	ctctggagaa	gctgaaagaa	acgatcgaaa	cttattttata	60
ggagggagga	atagtcggtc	tttcaatgca	acaatttatc	atatagtatg	ttctgtagta	120
aataatgcta	taaagataaa	ttggattatg	aagaaagtag	tactaatcgg	ggccagcggc	180
ttcgtcggtt	cggctattct	gaatgaagct	ttgaaccgtg	gattccatgt	gacggcggta	240
gttcgtcatc	ctgaaaagat	caagatagag	aatgaaaatc	tggaaagtga	gagagctgat	300
gtttcttcat	tggatgaagt	atgtaagggt	tgtaaagggt	ctgatgccgt	gatcagtgtc	360
ttcaaccctg	ggtggaataa	tcccgatata	tacaaggaaa	ccattgaggt	ttatctgacg	420
attatcgatg	gtgtaaaaaa	ggctggagtt	aatcgttttt	tgatgggtgg	tggtgccggt	480
tcactgttta	ttgctcccgg	catccgactg	gtcgattcgg	gagaagttcc	cgaaaagata	540
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gttgactggg	ttttcttctc	gccggcggca	gatatggctc	ctggagtacg	tacaggcaga	660
tatcgctgg	ggaaagatga	gatgattgtg	gatatggtag	gtaacagtca	tatatctgtg	720
gaagattatg	cggctgccat	gattgatgag	cttgagaagc	cggagcatca	tcaggagcgt	780
ttcaccatag	ggtactga					798

&lt;210&gt; 866

&lt;211&gt; 876

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 866

agtgcgggca	aaattcaata	tccgactttc	aatgacaaca	acctcaagaa	cggcaaggtc	60
tatgatgtcg	attttgaagc	cgcacagcaa	acgcaggcac	caaccggaac	gctcgtagcc	120
cgctaccggc	cgatcccttc	gttgagtgat	ccaaaatact	attcacactt	cacctctca	180
aagttccgca	atggaacctt	ccaactcctc	aactacgacg	aagggtgacg	agatatgggt	240
ggaggagcca	cctggctgaa	cttgctgaag	aatggtgcac	gcctggacac	aggatactat	300
atgatggtaa	ccggtactcg	catggcaagc	ggagctgtat	tggctaattg	gactttcttc	360

accattgaag	agggaaagac	aacaactgtc	gatctgggtca	tgcgcgaaag	caaagaccag	420
gtacaagtaa	ttggtaattt	taattccgaa	tcgacttatc	tgcttatagg	aacctccgaa	480
ccgcaaagta	ttcttcagac	ttgtggccgg	ggatactacg	ttgttagcagt	gctgggagcc	540
ggacaagaac	ccactaacca	tgcccttcgg	gatattgcag	ctttaagcgg	tgaatttgaa	600
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attatcgggtg	atacattcaa	ccgggtagtc	ttcgtgtcac	aagggtatac	catcggattg	840
ggcgaacagt	taatgaaagt	aatccatgga	ttatag			876

&lt;210&gt; 867

&lt;211&gt; 717

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 867

ataaagttaa	attatagtgt	tgcggaatta	aggataacaa	acgaatcata	tatgaagcca	60
acaatcaaaa	aagtacaacc	cgtcaaagtc	gtagctccgt	tccttaacag	tcagtccgaa	120
agtcgggtcc	cactggatgc	acttaccgac	caagagaaag	tttccgattt	gtacttcctt	180
aagggaaccg	tacatcaa	agctaaacct	tacctaaagta	ttaataattg	cactttcaaa	240
caacaaatat	tcagcgaatg	tcagttttaa	tcagctcaac	tgacagacgt	acgttttgaa	300
aattgcgatt	tatccaacgt	ttcgtttgcc	ggaactactt	tctaccgggt	agaatttata	360
tcttgcaaat	tgctgggaac	cggtttcccg	gaagccaccc	tcaatcatgt	tttaattgat	420
cattgctacg	gacaatacat	caatctctcc	atggtaaaaa	tgcgaaacagc	ccgtttcagc	480
cattgcaatt	tccgaaacgg	cagcctgaat	gacagcaaac	tgatgccggc	agcttttgat	540
acttgcaaat	tgtagaagc	cgacttttcg	cacacttcac	tcaaagggtat	cgacctgaga	600
aactctagaa	tagcaggtat	tcaactcaat	atagccgatc	tgaaaggagc	catagtcagt	660
tcgttacaag	caatagatct	gttacctcta	ctaggggtca	aaatagaaga	cgattga	717

&lt;210&gt; 868

&lt;211&gt; 462

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 868

aaagagctaa	aagatatgaa	acttagtcag	caatcacaag	ccattatcga	atctgcgatt	60
caaaaagcaa	tcaacaaata	tacctgtgga	tgcgaaacaga	ccatcgtcac	agatatccat	120
attcaaccga	atcagaattc	cgggtgaactc	tttatctatg	acgatgaaga	tgaagaacta	180
tccagtgtaa	ccatcgatga	atggacaacc	tacgaagggg	acgactttta	cgaagatgct	240
gaaagaattt	tccgtaccgt	gctttgccgc	atgaaagaga	acgggagctt	cgataagtta	300
accatcctca	aaccttactc	ctttgtgttg	gtagatgaag	acaaagagac	gatctcagag	360
cttctgcttg	tagatgacga	cacactgttg	gtgaacgatg	aactattgaa	gggactggac	420
aaagaattgg	acgacttcct	gaaagacctg	ttggagaaat	aa		462

&lt;210&gt; 869

&lt;211&gt; 1236

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 869

aaaacaataa	atcttgatag	tatggaaagt	atagactttg	gaaccctggt	tcagggattt	60
ggaacaatga	tagccagcgg	atggtttctg	gccagtgcc	gtatgttttt	aatagctttg	120
gggtttctgc	tcatttattt	aggctggaaa	gggttactcg	agccaatggg	gatgattccg	180
atgggccttg	gaatggtagc	tattaattgt	ggaacactga	ttatgcccga	cggaaacattg	240
gggaatcttt	ttttagatcc	gatgctgtcg	gataccgacg	cattgatgaa	cacgatgcag	300
attgactttt	tacaaccggg	atacacattg	accttttagta	acggattgat	agcctgcttt	360
gtatttatgg	gaatcgggtac	attgcttgat	gtgggattcc	tattgcagaa	accgtttgcc	420
agcatttttc	ttgctttatg	tgctgaattg	ggtacattct	tgacagtgcc	tattgcttcc	480
ggtctgggac	tgtcttttaa	agaaagtgtc	tcagtggcaa	tggtaggcgg	agctgatggt	540

ccgatggttt	tggtcacatc	gcttgctttg	gccaaacact	tgtttgtacc	tattacgggtg	600
gtggccttacc	tttatctggg	attgacttac	gggggatatc	cttatttggg	gaaattgctg	660
attcctaaac	gtctgcgtgc	tatcaagatg	gtagaaaaga	aagctcctaa	aaattatgat	720
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gttgcttcac	cattgttctt	ttcgctattc	ctgggagtgg	cagtacgtga	atccgggtatg	840
aagcatatat	atgattttgt	gagcgggtccg	ttgctctatg	gttctacttt	tatgttagga	900
ttattattgg	gtgtactttg	cgacgcacat	ttgttactcg	atccgaagat	tcttaaactg	960
ttagtattag	gtatgcttgc	tttgttactg	tgggtatcg	gaggcatcat	gggagggtac	1020
attatgtatt	tcattaagaa	agggaaactat	aatccgggtga	tgggcattgc	agccgtaagc	1080
tgtgtaccca	ctacggcaaa	agtggctcaa	aagttggtaa	gtaaagataa	tccgaattct	1140
tttattttgg	gtgatgcatt	aggagccaac	atttcaggag	taatcacttc	ggccatcatt	1200
acaggcattt	atataacgat	tataccttat	ttataa			1236

&lt;210&gt; 870

&lt;211&gt; 1533

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 870

actaagcaaa	aatctctaata	gaaaaatttc	tggaagaaat	accataaatg	ggtaggttta	60
ttcttttagct	tttttatcct	gatgttctgc	ttttccggta	ttgtactcaa	tcacgtgaca	120
ctcttttcaa	aagctgaagt	cagcagaaac	tggatgccgg	aaagctatca	ctacaaaaat	180
tggaataatg	gaatcataaa	gggaacacta	cgcctaccgg	atgggaaaat	tctggcatat	240
ggtaatgcag	gagctctggaa	aacagactcc	tgctttgcta	catttgccga	tttcaaccga	300
ggctctggcca	aaggaatcga	caatcgtaaa	ataagtaata	tcgtccgtgt	agccaataac	360
gatatctggg	gtgccggatt	atattctatc	tatctcttgg	accatgacag	ttggaaagaa	420
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&lt;210&gt; 871

&lt;211&gt; 1929

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (1889)

&lt;223&gt; Identity of nucleotide sequences at the above locations are unknown.

&lt;400&gt; 871

agataccgaa	agattaaagt	agaaaacagt	aattccggaa	agatgaaaca	aaaagagaaa	60
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aaaaaagaga	tcacaatcat	taacgaatta	aactcacaac	gtataccaat	gtcaccattg	1860
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ggcccgtag						1929

&lt;210&gt; 872

&lt;211&gt; 1296

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 872

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gacaaacttc	gttttgaaat	ggaccggaaa	ggaggggtat	catcacgtat	cctttcgtca	180
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acaggagagt	ttctgcccaa	gacgcttttt	aagatcaatc	ccaatctggc	cctgaatgtc	420
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ttgcacgaat	tgggtctctgt	cggtaaatat	cagtttaaga	taattaagggt	tacagcaacg	1260

aaaatcgaac ttgtccgact gaaagtaatg gaataa

1296

<210> 873

<211> 1500

<212> DNA

<213> B.fragilis

<400> 873

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ccaagaccat	ttatgaagaa	aaaaaatatc	ctattctttc	tattatgctt	tctcctgaca	120
agcctatcgg	cacaaacttt	ggaacaagca	agaggcatgt	atggcagagg	gcaataacgt	180
gaagccaaac	ctgtttttca	aaaatatgtc	aaatcgcaac	cggcaaacgg	taattacaac	240
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gagacggcag	taaagaaacg	cattccgagc	ggacaactat	atctggctca	gacttataat	360
gatttatacc	gctttcaaga	tgcagtagat	tgctacgaag	aatacattgc	agacttgtct	420
aaacgcaaaa	aaccgacaga	agaagccgag	cagcttttag	aaaaggctaa	aggaaaacctt	480
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gacgagtggg	gtcagggaaa	accacttcca	ggaagtatca	acgcctccgg	aaatgccaat	780
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gaacaaagta	aaatggcacc	ggctatccgc	gatcttgaga	agagggtact	tcagatgtca	1440
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<210> 874

<211> 552

<212> DNA

<213> B.fragilis

<400> 874

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caggaggtag	atacctttct	tcctgtacaa	aaccgtgtca	tagagcgtga	aggaaaacgc	180
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<210> 875

<211> 1497

<212> DNA

<213> B.fragilis

<400> 875

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<212> DNA  
<213> B.fragilis

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<210> 877
<211> 921
<212> DNA
<213> B.fragilis
```

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cttgcggcg	tcagcaagct	gatgggacac	aaagccatga	ccgtttgtat	ggttatagct		840
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actgttctcg	atcgaatctg	a					921

<210> 878  
 <211> 1161  
 <212> DNA  
 <213> B.fragilis

<400> 878  
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 gtaatattaa atcgttattc ggcatgaaa cctaattggg aatatgatgc tcaatttatt 180  
 gatgatagag ttagtgtaat agaactttgt aatttgaagg gaatacccaa atgtatgtca 240  
 aagttcttat taatttatac aataataatt gaattctgga aacttatatt cttgaataag 300  
 aaaaagaaaa tagatgttct ccatgtggct tcaggacatt ttatagatat tttctattat 360  
 gttataattg cacgttgat aggtgctaag gttgtttatc attattgtga atatagatct 420  
 tccttttaaat caagaaatgt ataccatcgg attaatggta aattgatcaa ttgctatgct 480  
 ccgaagtgtt gggacggtgc tatttgtatt agtcattttt tggatatctaa gacaaaagaa 540  
 gttaataaat ttattaaaaat aattcaaatc cctcccatct gtgattatga ttattttgat 600  
 catattatit gtgaaaaaga agcctctcct tatttgcctt tttgtggcta tacaagctat 660  
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<210> 879  
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 <212> DNA  
 <213> B.fragilis

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 tatgatttta gattgaaaaa taaaatgcaa tgtataccga ccgcccgaag atacaagacg 180  
 cacctccccg gcatttatcg gaatggataa 210

<210> 880  
 <211> 903  
 <212> DNA  
 <213> B.fragilis

<400> 880  
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 atccgacatg aatatcttgc cgcagtcgga ttgtacatca ttccggaaga ttcagggaact 180  
 attgcagcct tcatgggatt aagtaatgat tgcatagaaa tgttgtttgt ccgtccgaat 240  
 gcccatggac atggctacgg tagtcggctg gttgaatttg ccattcggaa aaaacgaatc 300  
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taa 903

<210> 881  
<211> 192  
<212> DNA  
<213> B.fragilis

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atthtgaaat aa 192

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<211> 1305  
<212> DNA  
<213> B.fragilis

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gttccatcgg gtgcatcgac cgggtgaacac gaagcgcttg aactccgga cgggtgataaa 180  
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acgaatacgt atgtattgcc tgtaccaatg atgaacatca ttaatggagg ctcacacagt 480  
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<210> 883  
<211> 543  
<212> DNA  
<213> B.fragilis

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aaccggttgt tctcagtggt gttgaatggc tcgtttatgt ttactgccga cttgctgaaa 180  
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gttatttgta aagataattg ggatacggga ctgactatgc agcgtctgct ggaaacattc 360  
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<210> 884  
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 <212> DNA  
 <213> B.fragilis

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 atcaatggca atatcataga ggtcaagtca atggacggat tactgaatga aaaaactccg 420  
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 <211> 528  
 <212> DNA  
 <213> B.fragilis

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<210> 887  
 <211> 3054

&lt;212&gt; DNA

&lt;213&gt; B. fragilis

&lt;400&gt; 887

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&lt;210&gt; 888

&lt;211&gt; 1251

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 888

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&lt;210&gt; 889

&lt;211&gt; 1410

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 889

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&lt;210&gt; 890

&lt;211&gt; 813

&lt;212&gt; DNA

&lt;213&gt; B. fragilis

&lt;400&gt; 890

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&lt;210&gt; 891

&lt;211&gt; 1263

&lt;212&gt; DNA

&lt;213&gt; B. fragilis

&lt;400&gt; 891

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taa						1263

&lt;210&gt; 892

&lt;211&gt; 1191

&lt;212&gt; DNA

&lt;213&gt; B. fragilis

&lt;400&gt; 892

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&lt;210&gt; 893

&lt;211&gt; 183

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 893

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tga						183

&lt;210&gt; 894

&lt;211&gt; 1575

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 894

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<400> 895

<210> 896

<211> 408

<212> DNA

<213> B.fragilis

<400> 896

<210> 897

<211> 1266

<212> DNA

<213> B.fragilis

<400> 897

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1266

<210> 898  
 <211> 2697  
 <212> DNA  
 <213> B.fragilis

&lt;400&gt; 898

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 <212> DNA  
 <213> B.fragilis

&lt;400&gt; 899

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&lt;210&gt; 900

&lt;211&gt; 252

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 900

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&lt;210&gt; 901

&lt;211&gt; 936

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 901

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&lt;210&gt; 902

&lt;211&gt; 435

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 902

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 <212> DNA  
 <213> B.fragilis

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 <212> DNA  
 <213> B.fragilis

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 <212> DNA  
 <213> B.fragilis

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 <213> B.fragilis

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&lt;210&gt; 907

&lt;211&gt; 519

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 907

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&lt;210&gt; 908

&lt;211&gt; 372

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 908

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&lt;210&gt; 909

&lt;211&gt; 1323

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 909

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&lt;210&gt; 910

&lt;211&gt; 2100

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 910

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 <212> DNA  
 <213> B.fragilis

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 <212> DNA  
 <213> B.fragilis

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&lt;211&gt; 738

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 914

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&lt;211&gt; 747

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 915

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&lt;210&gt; 916

&lt;211&gt; 204



&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 916

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&lt;211&gt; 1158

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 917

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&lt;211&gt; 1422

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 918

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&lt;210&gt; 919

&lt;211&gt; 2868

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 919

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&lt;211&gt; 1284

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 923

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&lt;210&gt; 927

&lt;211&gt; 474

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 927

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&lt;211&gt; 1965

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 928

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&lt;210&gt; 929

&lt;211&gt; 633

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 929

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&lt;210&gt; 930

&lt;211&gt; 3885

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 930

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&lt;210&gt; 931

&lt;211&gt; 1050

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 931

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 <213> B.fragilis

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 acctttgcac ccgggttaa 198

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&lt;210&gt; 940

&lt;211&gt; 396

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 940

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&lt;210&gt; 941

&lt;211&gt; 204

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 941

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&lt;210&gt; 942

&lt;211&gt; 891

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 942

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gcgaagcagc	gggaactgtt	ctatatcctg	aattctgttt	ataatgagca	ggaacttgcc	540
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gatgacttcg	gatttttcac	tccttcacac	tttaataaat	tttgcaggtc	acaatatgga	840
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&lt;210&gt; 943

&lt;211&gt; 993

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 943

caggaggtaa	cttctgtcat	atctccatgt	attattttca	ataatagaat	aggtatgaat	60
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gatggcacac	cgttcggttt	attcgatacc	tggttgcat	atttacctga	tatgcgcttg	480
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&lt;210&gt; 944

&lt;211&gt; 1296

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 944

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agatgcagca	gtatcttcgg	atatcagttc	agcgagatag	tcggttcgct	gatgagcgtt	180
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acacaggaaa	acatctccta	tacttcgcag	caaggcaaga	cctatgattt	caatactgca	360
gacaaatcaa	acacattgct	tataaacgct	ttggtttcta	caggcgagtt	gaaggaaatt	420
gaggaaatag	atgttgactt	tgaccatcag	ttccttgaaa	cggagaagta	tgatgcaaaa	480
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atccgtgcc	accgatgcag	ttcgctctac	aatgacatct	ttgctctgag	aggatggaag	780
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tggaaggcg	aatacactta	cgttgtatt	ctgaccaacg	attacaagtc	atcgacaagg	960
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cctgccaa	ggatcatgac	tgcaaggcaa	tacgtgctga	atatctacac	agagaaccga	1260
gcttatgcaa	aacccttcaa	aacagaattc	ggataa			1296

&lt;210&gt; 945

<211> 252  
 <212> DNA  
 <213> B.fragilis

<400> 945

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ctgagaaaact	cacacctttt	ggaggaattt	tttcaatcat	ggagaaattt	gactccatgc	180
tttcacccgt	tatcgactca	acactgggtc	agagatgcag	cagtatcttc	ggatatcagt	240
tcagcgagat	ag					252

<210> 946  
 <211> 540  
 <212> DNA  
 <213> B.fragilis

<400> 946

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tgggatttca	taaactataa	tattttattt	tctgtgaagg	atgccgccgg	caataacttg	180
ctggaccac	aggttgcgtc	gaatatattg	ggtaatgaga	ttactgtgga	atatggggat	240
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ccggaacatc	aatataaggg	agagaccttt	acgattcatt	ggggagatgg	aacgaaagat	420
gtggtaaaat	tcgacttata	tatcacctgg	aagaaacaga	accctacaat	acataaaaag	480
ctttacttga	atgacaaaag	atacagtaag	gattctttcc	tgataaagat	cgtgaaatag	540

<210> 947  
 <211> 279  
 <212> DNA  
 <213> B.fragilis

<400> 947

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tttttattca	gcccatctcc	ttcggaccgt	aaaaaagagt	ttctacacat	tttcaaaaata	180
caaaatgaca	ggattgtgaag	tgatcatgaa	aaaacaagtt	gtgataccta	ttatgtgcgt	240
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<210> 948  
 <211> 2136  
 <212> DNA  
 <213> B.fragilis

<400> 948

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ggagtttatg	ctcagcaaac	ccgcatcaat	cttcatgtga	aacaagttcc	cctaaagcaa	180
gtgcttaaat	cgatcgaatc	gaagagtga	tacactttct	tctacaatga	tgccgaaatt	240
gacatgaacc	gtaaagtta	ggtacaagcc	aataacgaac	gtattgatgt	gattttatcc	300
aaaattcttc	cggactgcaa	atgtgtagt	gagaatagaa	agattatttt	ggttcccggg	360
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atgccggaaa	ttataacaga	tccttatctg	gtggcaacca	ctcgaaatac	gatggcatat	1140
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&lt;210&gt; 949

&lt;211&gt; 1536

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 949

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&lt;210&gt; 950

&lt;211&gt; 804

&lt;212&gt; DNA

&lt;213&gt; B. fragilis

&lt;400&gt; 950

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gaagggaaatg	caaccaagt	gtttggttct	gataaaaaat	ggggaatgct	attagggctc	300
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ttaggatttg	gatatgcatt	ttaa				804

&lt;210&gt; 951

&lt;211&gt; 1248

&lt;212&gt; DNA

&lt;213&gt; B. fragilis

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (8), (16), (29)

&lt;223&gt; Identity of nucleotide sequences at the above locations are unknown.

&lt;400&gt; 951

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agtttaggaa	accaggatgt	ggatgcttat	gcatactctg	ccacgatggg	atcaggaaaa	120
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aaaccgttct	attatgatgt	aaacttcaat	ctggcggata	gccgtgctta	tattacaaag	480
tacgaaaatc	ccaagggatt	gctgggcat	tattatgtag	gaaaagagat	tggtgagata	540
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gaattttcgg	gtttatacaa	gcattacaaa	gtagatccgg	aaagcttagg	tgacattgtc	1200
tatcctcttc	agcgttctta	ttcattcggt	ttaaagtgtta	cattctaa		1248

&lt;210&gt; 952

&lt;211&gt; 606

&lt;212&gt; DNA

&lt;213&gt; B. fragilis

&lt;400&gt; 952

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tataacaacag	aagatggtaa	aagagactta	gtagaagaaa	cagcagccga	acatcctttc	120

caattcattt	caggtttggg	cactacgctc	gaagcttttg	aatcacagat	agtaaaccctt	180
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gacggttgcg	gtgacgactg	cggagacagt	tgtggagaca	gctgcggttg	tggacattgc	600
cattaa						606

&lt;210&gt; 953

&lt;211&gt; 1383

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 953

aaccattcac	tcattccggat	aggatattct	ttggttaa	ggatgggtta	taagagtata	60
tttctacttt	ttgtgcaaaa	tataaacctt	ggacagatga	ctgaatcaga	aagaaaacag	120
ataatcgctt	taatacagcg	ggaggtgatt	cgggctatcg	gatgtacaga	gccgattgca	180
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&lt;210&gt; 954

&lt;211&gt; 1065

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 954

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&lt;210&gt; 955

&lt;211&gt; 192

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 955

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catcatcttt	aa					192

&lt;210&gt; 956

&lt;211&gt; 1680

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 956

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&lt;210&gt; 957

&lt;211&gt; 1137

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 957

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&lt;210&gt; 958

&lt;211&gt; 1359

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 958

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&lt;210&gt; 959

&lt;211&gt; 582

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 959

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&lt;210&gt; 960

&lt;211&gt; 1131

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 960

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&lt;211&gt; 1137

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 961

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 <212> DNA  
 <213> B.fragilis

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 <213> B.fragilis

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aagttacaca	attaa					2475

&lt;210&gt; 964

&lt;211&gt; 894

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 964

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&lt;210&gt; 965

&lt;211&gt; 258

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 965

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&lt;210&gt; 966

&lt;211&gt; 1980

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 966

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&lt;210&gt; 967

&lt;211&gt; 195

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 967

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&lt;210&gt; 968

&lt;211&gt; 1725

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 968

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&lt;210&gt; 969

&lt;211&gt; 1266

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 969

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gaatga						1266

&lt;210&gt; 970

&lt;211&gt; 1143

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 970

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<211> 2991
<212> DNA
<213> B.fragilis
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&lt;211&gt; 297

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 972

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&lt;211&gt; 1092

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 973

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&lt;211&gt; 588

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 974

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&lt;211&gt; 1038

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 975

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&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 976

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<213> B.fragilis

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&lt;210&gt; 979

&lt;211&gt; 1653

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 979

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 <213> B.fragilis

<400> 981

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 <212> DNA  
 <213> B.fragilis

<400> 982

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&lt;210&gt; 983

&lt;211&gt; 486

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 983

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gaaaacgagc	ggcacaatta	tgtgaaatgg	atctattctg	caaagaccga	tcggggcaaaa	420
gtagccagga	tggccaaagc	gattgacagg	cttgcaagca	acctgaagta	ttacgataaa	480
ggctga						486

&lt;210&gt; 984

&lt;211&gt; 1170

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 984

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caaggtgtca	tccgttttcg	taacatgtat	gattcatcct	ctgagattct	agaatatttt	1020
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 agttcttttaa agtaccacct atattttatcc aataataatt attacatcat ttttcttata 180  
 cagtctagtt ggaagaactg a 201

<210> 986  
 <211> 1899  
 <212> DNA  
 <213> B.fragilis

<400> 986  
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 gtttctgaag aaattacaga aactccggct gaagaaacta ttgtggaaaa accgacagaa 180  
 aatgcttcga aactaagcac taaagaagag gtgctgctcc ggttaaaaga agttgcccaa 240  
 gatgctgaaa atgcaaacaa gcaagaactg gatggtttta agcaaaacttt ctataaaatt 300  
 cataatgccg aaatcgaggg tgcaaaaaaa acgttcgtag agaatgggtg tgccgaagaa 360  
 gaattttattg ctccagcccag tggcgtggaa gaagaattta aaagtttgat ggcagctatt 420  
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 cgtgacgaaa tatggaatcg ctttaaaaggc gcttctacag ccgtcaaccg tcgccatcag 900  
 cagcatttcg aagctctaaa agagaccgaa caacataatt tggatcagaa aacagttatc 960  
 tgtgaaatag tagaagctat tgagtttgac caattgaaaa catttgccgc atgggaaacc 1020  
 aagacacaag aggtgattgc cctgcaaaac aaatggaaaa caattggttt tgctccgcag 1080  
 aaaatgaacg tgaaaatctt tgagcgtttc cgtaaagcgt gtgacgaatt ctttaaaaag 1140  
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 tataaacaat atcacggttt gattgaccaa cttttcgatc gatttaatat cagtgcacgc 1620  
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 caaacttatg aaaataattt gggcttcctg actacctctt ctaagaaagg aaatagctct 1800  
 ttgacagaaa tcaaccgcaa ggtggaaaaa ttaaaatccg acttagaatt agtattgcag 1860  
 aaaataaaag taatcgatga atcaatcaa gaagaataa 1899

<210> 987  
 <211> 342  
 <212> DNA  
 <213> B.fragilis

<400> 987  
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 acggaattat cttctaocga atataaattt cgctatgatg acgaatattt caatgatcca 120  
 tcaaagccct ccataagcct gacattgaca aaacaacaac aggaatatac ttcccattat 180

ctatttcctt	tttttgccaa	catgctgtca	gaagggcaca	accgcatcgt	tcaggcaaga	240
ttattgcaga	ttgatgaaaa	agatgatttt	ggtattttat	tagctacagc	acataccgac	300
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&lt;210&gt; 988

&lt;211&gt; 1032

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 988

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ggcaatgcgg	ttttacgtcg	ttttcttgat	tctgatatca	gggagattcg	tatattctct	120
cgtgatgaaa	agaaacaaga	tgatatgcgt	cactatcttc	agaacccaaa	agtaaaattc	180
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gatgttgagg	ggatgaaaga	acttctcttg	aaacttgatt	ttattcgcga	agatcttggc	1020
cttgaaaaat	ag					1032

&lt;210&gt; 989

&lt;211&gt; 1245

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 989

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aaccgtgttt	cagatctttc	tgaacggggg	atatacacgg	atttgatgcg	ggaatttatt	120
tgtcatgggc	atagggctca	tatggtttgt	cccgccgaac	gtcgttttca	tgaatctact	180
tcaataaaag	agagttgtgg	cgtccaaatg	ttgagggtga	agacattgaa	tatccaaaag	240
agcaatgtgg	tggagaaagg	catcggtaca	ttgttattgg	aaatgcagta	tcaatgtgcc	300
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actttcaata	gggtcatcag	ttcacaaaag	agacgtttga	aggcgaaaag	ttatctttta	420
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gtaagaaaaa	acataattgca	gaaattgcat	attccaatta	ataagactct	ttttatatat	720
ggtggcaatt	tggggcgctc	acaagggttg	atcttcttgt	tggacgtgat	agccgcaaat	780
gaggaacgta	atgacagtta	tttcatcatt	gtaggcagtg	gcactgaata	tggcaagata	840
aagtcttggt	ttgaggcgaa	tcatccggat	aattcaatgc	tgctttcttc	acttccaaag	900
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gacagagaaa	aaataaaaag	gatgggcgag	aaagggtatg	aatacttgaa	gtctaattat	1200
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&lt;210&gt; 990

&lt;211&gt; 183



<212> DNA  
<213> B.fragilis

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ttaaatgacc tggatgaatc atatccgcac tcattccaac ataaactttt ttacattttt 120  
ccatcttaca tagaatttat tagaaaaaac aaacaggaag tgtagttat aacaatttat 180  
taa 183

<210> 991  
<211> 489  
<212> DNA  
<213> B.fragilis

<400> 991  
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ttatctcccg ataccgggat acgccttcaa tacaatgacg cacaattact cgggactgat 120  
ggacacgcta aagagattga gcattaccga caccggggaa gtaaaactcca tactcaggct 180  
gtcggactat gggaggaagg gaacgacggt atggaaactg attgccaaca cttgctggag 240  
cgacatcgga gccaaaggaa gatacctgat agcggcgcta aacaagacga aaagaaggta 300  
gcagagagtg tcagtcccct atttgtagtt gacaaaaaag caaatatata ggcttttgac 360  
cagaaagggg ttccagcgaaa caaagaagta aaaagtgtgc ttaacgaact aaaacacagt 420  
gttttttaag cacaagattt ctctcgccca aagctttgtt ttaacgctac gttaaagctt 480  
gttctttta 489

<210> 992  
<211> 186  
<212> DNA  
<213> B.fragilis

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aaaagcttat tagctcttta tgaactcttt tggggggaat gccgatgcgg ataccaaatt 180  
ctatga 186

<210> 993  
<211> 297  
<212> DNA  
<213> B.fragilis

<220>  
<221> unsure  
<222> (56)  
<223> Identity of nucleotide sequences at the above locations are unknown.

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caagttattt caccgcagct taatgtgaat atccggaaac tggatatgga aacggacgat 180  
ggcattttcg aaggaaaggc cgggttgtat gtgcacgatg tggaaagatgt aaaagctatt 240  
tgcaacaacc tgcgcaagat tccgaatata aagtcggtga cacgtgtaga aaactaa 297

<210> 994  
<211> 1164  
<212> DNA  
<213> B.fragilis

<400> 994

60 120 180 240 300 360 420 480 489

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accggcgaca	ttatcgctaa	tacagaagcc	atattctcat	taagcaaaag	tattccacta	180
tccgaagaca	tgcgggaaga	ttatcgaaac	atttatgcca	gaattgctgt	agtaggcagc	240
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acctcgtctc	cttccacacc	gatggatatc	tctgaaatag	acagtgtttc	gtggatacaa	420
ccagaacctg	aacaagcact	ttctatacgg	gtatcgaccc	atgggtgatcc	cggaaaaact	480
caatactaca	tgtggaacta	tcggaagac	tgggagataa	gagccagcta	cattacaact	540
tgtacttttg	atccggatat	gaaccgcac	tatgaagaca	gcaattatcc	aactttctat	600
tgttggaaaa	aggaaatatc	aagaaatata	ttgattggct	ctacggaaaa	gttgaaagaa	660
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ctatacagca	tacaggtaca	gcaacgggca	ttgagtaaag	agggatatga	atattacttg	780
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caaggaaaca	ttagttgtat	cagtcagcct	ggacgaagga	cgatcggtta	tgtaggcgtc	900
tataaaaaaca	tctctgaaaa	gagaatatac	attcatccca	acgaaattaa	acgtcctcct	960
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tgggccctac	ggagatgtac	agaatgtgaa	gccaacggag	gaagtaaaaa	caagccttca	1140
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&lt;210&gt; 995

&lt;211&gt; 366

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 995

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caacgaagaa	aaatgttggg	tataaatcag	caaacacttg	ccgatttagc	acaaatcagt	240
atcaatacta	taacaaaaat	tgaaaatgga	gaaataaata	ttaattttca	aaagctctat	300
gccatattgg	aggtattagg	attagaactt	tctctgaaaa	ttaaaaataa	ggagggacat	360
ctatga						366

&lt;210&gt; 996

&lt;211&gt; 2046

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (1088), (1885), (2007)

&lt;223&gt; Identity of nucleotide sequences at the above locations are unknown.

&lt;400&gt; 996

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aaggccttca	atttcgccaa	tcaggcacat	aaaggcatca	aacgacgctc	gggggaaccg	180
tatatcatgc	accccatgtc	cgtcgcgaag	atcgtatgca	atgaaatagg	ccttggctcg	240
acttccattt	gtgccgcttt	gctgcacgat	gttgtcgagg	acaccgatta	tacagtagaa	300
gatatcgaaa	atatcttccg	ggccaagatt	gcacagattg	tcgacggact	gaccaaaatc	360
tccggaggta	tttttggtga	ccgggcttcg	gcacaagcag	aaaacttcaa	gaaactcctg	420
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gcaacagccg	ccgaacgcga	taaggtatc	aacgaattca	ccgctcccat	acgcgagcag	720
ttggataaaa	tgggattaaa	atatcgaatc	ctggcacgtg	tgaagtccat	ctactctatc	780

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cccaaagcta	acggatacca	ggcactgcat	gtcactttga	tgggcaataa	tggccagtgg	1020
atcgaagtcc	agatacgag	tgagcggatg	aacgatgtag	ccgaacaggg	atttgccgcc	1080
cactggnat	ataaagaaag	aggaggcagc	gaagacgaaa	gcgaactgga	gaaatgggtg	1140
cgtaccatta	aagagatact	cgacgatccg	cagccggatg	ccatcgactt	tctcgataca	1200
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accatgccgc	agaactccac	tgccctggat	ttcgccttct	cactgcacac	ggatatagga	1320
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&lt;210&gt; 997

&lt;211&gt; 888

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 997

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&lt;210&gt; 998

&lt;211&gt; 366

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 998

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 <212> DNA  
 <213> B.fragilis

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 <212> DNA  
 <213> B.fragilis

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 <212> DNA  
 <213> B.fragilis

<400> 1001  
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 aagttagctg ttttagccat cgacccgagc agtgaacgca gcaaagggaag tattttgggt 420  
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 <212> DNA  
 <213> B.fragilis

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 ggtgttcggg attctttatt aaaaaacata tgtgcttata ttgcgggataa caaggatgca 180

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aaatag						1206

&lt;210&gt; 1003

&lt;211&gt; 1260

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1003

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&lt;210&gt; 1004

&lt;211&gt; 840

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1004

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&lt;210&gt; 1005

&lt;211&gt; 615

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1005

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&lt;210&gt; 1006

&lt;211&gt; 1068

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1006

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&lt;211&gt; 1527

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1007

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&lt;211&gt; 1038

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1008

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&lt;210&gt; 1009

&lt;211&gt; 765

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1009

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&lt;210&gt; 1010

&lt;211&gt; 360

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1010

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&lt;210&gt; 1011

&lt;211&gt; 1002

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1011

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&lt;210&gt; 1012

&lt;211&gt; 1335

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1012

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&lt;210&gt; 1013

&lt;211&gt; 1152

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1013

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&lt;210&gt; 1014

&lt;211&gt; 855

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1014

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&lt;210&gt; 1015

&lt;211&gt; 945

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1015

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&lt;210&gt; 1016

&lt;211&gt; 324

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1016

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&lt;210&gt; 1017

&lt;211&gt; 867

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1017

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&lt;210&gt; 1018

&lt;211&gt; 1206

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1018

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&lt;211&gt; 1029

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1019

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<213> B.fragilis

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<212> DNA  
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<213> B.fragilis

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<211> 903
<212> DNA
<213> B.fragilis
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<212> DNA
<213> B.fragilis
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gtctcagcat	catctgtaga	ggttctaaaa	ttctttcgat	tagttatttt	caacttcctt		420
ttttcaaattg	gagatgetca	tgctaaaaat	ttctctttgt	tagaaactcc	ttctggagat		480
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<212> DNA
<213> B.fragilis
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gtatatggaa	cgaacgatgt	agtagccgct	gcatggaaca	ttaacgggga	accgttcaga	660
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tga						1443

&lt;210&gt; 1026

&lt;211&gt; 951

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1026

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&lt;210&gt; 1027

&lt;211&gt; 2778

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1027

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<210> 1028
<211> 1017
<212> DNA
<213> B.fragilis
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aaaaaggaat	taactcctct	tattgcatta	ccaaccacag	ctgggactgg	atgtgaagcc	300
actccttttg	ctgtatgtta	taagaattca	ataaagtact	cagtggctca	taatgatatg	360
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aaggtagtaa	attctccttc	aaatgagatt	cgcgatttga	tgtctgttgc	agcttatttg	600
tctgggtgtg	caattgctat	tactaagact	acagctccac	atgctttttc	gtatgctttt	660
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aatgacttga	ccataatgtt	gaatcaggta	aatattcagc	gattggtaaa	taaccctgtc	960

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<210> 1029

<211> 1257

<212> DNA

<213> B.fragilis

<400> 1029

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ggtgataatg	gtgtccctgt	tccggttat	atggatcgaa	atgtatcgac	aaaggtggtg	1200
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<210> 1030

<211> 426

<212> DNA

<213> B.fragilis

<400> 1030

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<210> 1031

<211> 594

<212> DNA

<213> B.fragilis

<400> 1031

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gctccggggc	gaccgatgat	cttattcgaa	ggtcacatct	tttggcgtga	actcaagaag	180
cggggactag	atccggagag	gtatgtttcg	ggcaatgaaa	atattcttta	tcctaaatgg	240
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<210> 1032  
 <211> 501  
 <212> DNA  
 <213> B.fragilis

<400> 1032						
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<210> 1033  
 <211> 891  
 <212> DNA  
 <213> B.fragilis

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<210> 1034  
 <211> 798  
 <212> DNA  
 <213> B.fragilis

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<210> 1035  
<211> 888  
<212> DNA  
<213> B.fragilis

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gacgatgcga atttctattg gttaaccgga gaatttatcg atcatgaacc ggaaaacgaa 780  
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<210> 1036  
<211> 549  
<212> DNA  
<213> B.fragilis

<400> 1036  
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<211> 2043  
<212> DNA  
<213> B.fragilis

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taa						2043

&lt;210&gt; 1038

&lt;211&gt; 423

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1038

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tag						423

&lt;210&gt; 1039

&lt;211&gt; 597

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1039

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&lt;210&gt; 1040

&lt;211&gt; 618

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1040

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&lt;210&gt; 1041

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1041

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&lt;210&gt; 1042

&lt;211&gt; 1497

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1042

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&lt;210&gt; 1043

&lt;211&gt; 5784

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1043

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&lt;210&gt; 1044

&lt;211&gt; 1089

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1044

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tggaattaa						1089

&lt;210&gt; 1045

&lt;211&gt; 846

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1045

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aaatag						846

&lt;210&gt; 1046

&lt;211&gt; 1323

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1046

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taa						1323

&lt;210&gt; 1047

&lt;211&gt; 1140

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1047

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&lt;210&gt; 1048

&lt;211&gt; 819

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1048

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&lt;210&gt; 1049

&lt;211&gt; 1416

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1049

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&lt;210&gt; 1050

&lt;211&gt; 1104

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1050

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1104

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 <212> DNA  
 <213> B.fragilis

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 <212> DNA  
 <213> B.fragilis

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aatatcctgg	gcgaaacgca	gaatgggttg	aaaattccgg	ggtattattc	attgaagtca	780
tcgattgatc	cggatgaagac	aaccagcggg	attacaaaaa	aactgggtgac	cagtgtatat	840
gccaaagcct	ctgtttcctg	gaaaagtaca	ctgtttctgg	atgtgacagg	acgtaatgac	900
tggtcttctt	cattgccgtc	ggagacacgt	tcttatttct	atccttctgt	agccggtagt	960
gtggttcttt	cacagttcat	cccaatgccc	gaagtgattg	acttctggaa	agtggggggg	1020
gcatggacgc	agaccaagag	tgacttgagg	gtatacgata	ccaacaatac	ttacagtgtt	1080
tctaccgatt	tgtggaacgg	tgagagcgcc	gcatattatc	cgacatctat	ccgtgggtga	1140
gcggtgaaac	cctcgccac	gcgttcttat	gaaatcggtg	cggcaattca	catgtttaag	1200
aatcgctga	aactggattt	tacatattat	aataaactct	attacaactt	gacccgcagt	1260
gcaggtatca	gtaactcttc	cggattttacg	tctacattga	tcaatatcga	tgaagaatat	1320
gtgggacggg	gagtagagtt	gactttatcg	ggcgatatta	tcaggacgag	agacctgaaa	1380
tgggagtcgt	ccttcaactg	gtcgcgtgac	cgttggtatt	ataccaaaat	agacccgggtg	1440
tattctacac	aaaaaccttg	ggtagccgtc	gggaaacgtt	gggactggta	cggtatattac	1500
gattggggagc	gtgattcaca	gggaagtctt	caccacgggg	gtggaaggag	caacgtctga	1560

&lt;210&gt; 1057

&lt;211&gt; 825

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1057

cagacacgat	ttgccacaga	acgtatatgt	ggggcgactg	ggcccttccc	cgatcccgc	60
agggctgggc	caaatatccc	gttttcaatc	cggcggaccc	cgttccggca	tccggtatcg	120
gtcggctatt	ccaacatata	ctccttttgc	agggactttg	tcagcacgcc	ccgttttctg	180
ggggcttttc	cgtggctgga	actggcgggc	accatcgccc	ccttgctggc	agcctataat	240
gccaacgcgt	cggcactgag	cctgcatata	gagagccgc	aggcctattg	ggacgcggca	300
gaggacagga	tcagggaaat	atgcaagcgt	aaggggggtg	cttattcggc	cagaatgctc	360
gaggaattca	aggatgaagc	catggagaag	ttcgcttcag	gagtgaccgg	cagggagaat	420
gtggggcaat	acatgcacac	gaccagggtc	tgggatgcgg	acgccaatga	cttccagggc	480
tggacgataa	cccccatcga	caagaaaata	agggattata	tcgaaagcca	gatcaagatc	540
gccaaacaagg	ccgatgccgc	ggccacatcc	gggttcggac	tggatccggg	gctctcaaac	600
ctgatcatgg	ataacaagct	gtcctcaggg	tcggaaaaaac	tgtactccat	caaggtgtac	660
aatgccagtg	agacggccat	accggacatg	atcctgtgca	aaccgttgat	gcactacata	720
cgggccaatt	atccgggaag	cagaacacag	gtggggcctt	accggagcgt	agtggaatcc	780
gaacagagtg	tatcacccgc	aaacaggatg	aaagaaaata	tataa		825

&lt;210&gt; 1058

&lt;211&gt; 477

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1058

attcgaaacg	ccatgaacga	ggatctgata	aaacaagagt	ttgtccggga	gaatatcgaa	60
agggatatcc	gggccatttt	cgaggcgcaa	tacctgatcg	ccaccgaaag	ggtgtatacc	120
tctgccatct	atccgactca	ggtcggacag	gggcggagcc	ttgtccggga	acaggggtat	180
ggacgcctgg	tgccgggttac	taccggccgg	ctgctcagcg	ccttacacaa	ccccgtttac	240
agcgtcgggt	tttccggggc	gggggtgggtc	gccacttcca	acatccccct	ctatatccgc	300
ttcctggata	tgaagaaaca	tggaaactat	ggcatctata	accgccaggt	atgggggaatc	360
ctctggaaca	attcgctcca	gaccataaaa	tacggatatg	gcaaggaggt	ccgcgaccgt	420
atztatgccg	gattacagga	agcttttcaa	agaatggaaa	tacgtacgga	ttcctaa	477

&lt;210&gt; 1059

&lt;211&gt; 456

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1059

aactgttcag	ctatggtaga	tttacagcaa	tatgaagagt	attggtcggg	tataacggag	60
aggattccgc	aaataaagaa	ggtggtgcct	gtcaccttcg	accccgacat	gggcgctttg	120
gtccaagggc	ttaaagcgga	cgaactaccg	gcgctgctac	tcatcatccc	aagcgccaaa	180
ggaaaatccc	cggatgtgga	caacctgttg	gaattaaacc	tttgcgtagc	gttcctgatg	240
gacaagaccg	atccgcagcg	taaggggact	tatcaggtgt	taaaggagtt	gcagcccgtc	300
atggagaaga	tgaaagcgca	gatgatcgat	gacaaggctg	cgggatgtca	cctgctctcc	360
cgtctggacc	tgtcgagctt	atccaccatt	cccgaagcgg	gattttattc	ggctctttgcc	420
ggatggagcc	tgggatttga	attcgaaacg	ccatga			456

&lt;210&gt; 1060

&lt;211&gt; 402

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1060

gaagcaatga	agtattttac	aatcaaggaa	ttaagccaca	gcgatacggc	cgtggcgcg	60
gggattgaca	atacccttac	gggggaggtg	gttcacaacc	tgacagagct	ggtggaaaac	120
gtcctcgacc	cgctccgtga	aaagtacggg	aagcccatcc	gggtaagttc	cggttaccgg	180
agcgctgtgc	tgaacagaag	cgtgaacggg	gcgacctcca	gccagcacct	actgggtcag	240
gccgccgata	ttaccgtagg	cagcaaggag	ggaaaccgcc	ggctttttcga	gatcatccgc	300
aaggaactgc	ctttcgacca	gctgatcgac	gagaaggatt	tctcctgggt	gcatgtgtca	360
ttccgcacag	gcaaaaaacag	aaaacaggta	ttaaaactct	aa		402

&lt;210&gt; 1061

&lt;211&gt; 2847

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (2724)

&lt;223&gt; Identity of nucleotide sequences at the above locations are unknown.

&lt;400&gt; 1061

gaatcgggtga	atgacctgga	gctcatgcag	gccgcggtac	gcgccaaaaga	ctttcgtatc	60
ccgctcgagg	acctggggaa	atacttgcat	tttgcccgtt	taaaagcaca	gcagaccgga	120
cagagcgtgg	attatctgac	tgactcgatc	ataaccggac	tgggtcgtaa	atcactgctg	180
atactcgaca	acttaggcct	gtcgcccgcg	gaggtcaacg	aggagatggc	caaaacgggg	240
gatctgatgg	cagcgggtgg	tgcaatcgtg	gacaggcaac	tcgcgcaagc	gggggagaat	300
tacgtgtcgg	ctgcgggaaa	ggccgctcaa	aaagcccgcg	agctgcaaaa	caggcagatg	360
gaaatcggaa	ggctcctgct	tcccctgcaa	gaaaaatgga	gcggtctctt	ccagtctctc	420
aagctcgggt	tttcagatgt	ggcgctccgg	gtattggaac	ataaaaaaag	catcattacg	480
cttatctccg	tggttaccgg	ttttattctg	gtttataaaa	cggttattct	tctgcaaaaa	540
acatggaacg	ggcttttaat	gctgggcaag	gcggtcggcc	tggcctacgc	ctcggttgtg	600
gccatgcaga	gaggaaacat	cctcagaagc	gctgccgcca	tgaaaatgta	taatgcctcg	660
gtggcgtcca	acaacatcct	ggtaaaggca	tgcaccgcat	ccacttatct	gtttgccgcc	720
gccaaaggcg	tgcttaccgg	gaatatcaac	aaggcccgga	ttgccatgca	ggccttttat	780
gcaatcacca	aaataagccc	gctggccata	gtggccaccg	tggtcgccgc	cctgacatac	840
aagctggtgt	cttatcgcat	ggaacttacg	gcgacggaaa	aagcggagcg	gagcctgcac	900
cgggtgcggg	cgcaggccgc	cgacaccgta	gccaccgaaa	cccgggaact	gaataccctc	960
ctgggaatcg	cacgcaacga	gaaaataagc	aaggagcagc	ggatggaggc	cataaaaaag	1020
ctcaacgcct	taagtgagga	ataccttgcc	ggtctcaggc	tggaaacaat	caacaccagg	1080
gaagccacgg	ccgcagtga	ggactacacg	gacaacctgt	tgtccatggc	caggatacgc	1140
tcggcaaaact	caaggctgga	ggagatccag	aaagaaaaaa	gggcactgga	ggaacagcgt	1200
aaggatatcc	atgccaaccg	gaatctctgg	gacagtttca	aactggggct	cgccaaaggg	1260

ttcaattctt	tgtccgtagc	ggtaaagggg	tattccgacg	cctggtcgga	gggggtcatc	1320
catgactatt	ttgcaaggga	attcgaccaa	atacaagcct	tgaaccggga	agaaaagaaa	1380
cttacgcagg	agatcacggc	ctcacagcag	gatatcatta	aggtcgatac	ccaatccgag	1440
gcaaaaacca	aggaccttat	ccaggccaaa	aaggaagaga	ttgcccaggc	tgagcgggaa	1500
gtcgctcga	cgccggccct	gctggccgcc	aaaaaccgga	aactccaaca	gttgaacgag	1560
gagcttaaag	cgttgcagca	gctgggaact	atccgggaaa	ccccggacgg	attcgctcgc	1620
cagaccgaca	aggtcctctc	ggccctgaat	gagaggcatg	aaaaggagct	gctcaagatc	1680
cgggaaaaca	aggagaggca	gcagcagaca	caggctcaat	acgataaggc	cgtgctggcg	1740
gaagacataa	ggtttcacac	ccaaaggctc	gtcatcctcg	aagggtctga	gaaaaagacc	1800
gcccggacca	aactcaggca	gctggccgac	atccgggcaa	aatgacgga	aagctccgcc	1860
aaaatactgg	agttacagcg	gaaactggat	gaaaacgagg	ttgccctgct	acaggaacag	1920
cgggataaaa	aactggccat	acaggaggat	acgtacaagg	ccaccagggc	acagatagaa	1980
ttgaattatg	caaacctgca	tattacgcag	cagcagcgcg	acatgttgct	gttgagcctg	2040
gaggagtcca	attcccggga	aagactcggt	atcctgaagg	aataccggaa	ggatgtggaa	2100
gccttgagc	tacagacggg	ggatgtgaaa	atacaggccg	tcaaactctc	cgggcaaaaag	2160
gtactggagg	cggagctggc	caacgccaaa	gacagggccg	cgcagcaaaa	ggcgatcgaa	2220
accatgcttt	cctctttcaa	aaaagagttc	aaccttttca	atctgccgga	tgaaacggac	2280
cttcagctca	aggtgctgga	agcgtcatac	cgggcccggc	tggaactgat	ccgcaatgcg	2340
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ttggagaagt	acgggctgct	cggattccag	caacgctatg	ccatgcagat	ggcggccctc	2520
aagcgggaga	aggaacaggg	gttgataggt	gccgaagcat	atgcaaaggc	cgaaaagatg	2580
ctcaagatac	agtcttgtaa	agaggctttc	gattattatt	ccaacctgtt	ttcaggggct	2640
gtctctgccc	tgcaaaaacg	cgagatcgcg	aacatggagg	ccaaatatga	cgccgagatc	2700
gccgcccac	agggaaacgc	gcangaagtc	gaacgcctga	aaacggagaa	agcgcagaag	2760
aagctggaga	tcgagaagaa	atacgccgac	gtgcagtttg	ccgtaaaagc	caccagatca	2820
ttgcccgaca	cggcgtggcc	atcatga				2847

&lt;210&gt; 1062

&lt;211&gt; 951

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1062

tatacaaata	tgaaactgat	atattgataaa	gattcaaacg	gcacgcagga	actggtcgac	60
gccttggggc	tgatcgatgt	ccgcacggac	ttctccaaat	ggaagccgta	cataccttta	120
agcatacgtc	gcctgaccgc	catcataagg	caggaggttt	atgacaaggt	tctcgacttc	180
taccaatcgg	caagcgtcga	tccggatggc	aagctcaccc	gcctgttggg	aatggtgcag	240
cagtccgtag	cgctgtttac	ctggctgaaa	atcatcccca	cactggatgc	gcagcatggg	300
aacacaggca	ggcagaagcg	cttggggggag	cacgaaaaag	ggctgacagc	cttacaggag	360
tacaaggatg	aagccaacat	cctgagtcag	gcctacgagt	cggtagatgc	cctgatagca	420
tatctggagc	aggaaaagt	cgatttctgg	atacaaaagc	ccaaaaggaa	ggctgtatcg	480
gaattgctcc	tgaatagcaa	ggaggcattt	gatttttact	atgtaaccgg	cagccaccgg	540
ctgtttctga	ccctggcacc	catcatccgg	gaggtgcaac	agaggcatat	catcccata	600
atcacgtacg	gccgttatga	aaagctggta	gcggggccagc	aggtggcaga	ggggttccga	660
gacgccgtct	gtcggccgct	ggccctgctg	tccatgagca	aggccgtgga	acgtttgccc	720
gtggaggtcc	tgcccagacg	tgtggtgcag	gtgcagcttg	caggaagcgt	ccgtgaaaag	780
ctcagggcgg	aagccgaagc	gcgcaagaca	gtggcaaaaa	gcctggaaca	agatggcatg	840
cgggatcttg	ccgcgctgga	ggacctggtc	gcggcgctcg	acgccgcacc	ggatgaaccg	900
gatctgtatg	taccctcgat	cacccttcaa	tcaaaaggca	taacattctg	a	951

&lt;210&gt; 1063

&lt;211&gt; 648

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1063

aatacggata	tggcaaggag	gtccgcgacc	gtatttatgc	cggattacag	gaagctttcc	60
aaagaatgga	aatacgtacg	gattcctaaa	gacacattgt	ccttttgtcc	gggagacggc	120

ccgcctat	ttgtccttaa	aaataacg	atgggaaa	tacaaccg	ttatatcacc	180
tggacgct	tggatcaat	ggacgggt	cagaaggag	tgctgaagg	gcgcaacaac	240
accaaagag	tcaaggcg	gaacgtgc	ctgaaatc	ccatggaaa	tcttgccatg	300
cagggaaaa	tccagagca	ggagtata	gaactgaat	cgcaactca	ggccaacaac	360
cgtaccat	cggaaaac	ggagaagtc	cgctgctcg	aaagccgt	gaacaacgcc	420
gacaaatcg	atgccagct	ctcaaacag	gccagacag	ttcgcagg	attggacaat	480
acggtaaa	cgttacaac	ccaagagta	gcccgtctg	aggcggaa	ggcaaagacc	540
aaggaggcg	tggagcag	aaggcccaa	acccgagg	gtgaaagag	catttttcag	600
ccttaccag	atgaaatcc	cggtagtc	gttttttc	cggtatag		648

&lt;210&gt; 1064

&lt;211&gt; 795

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1064

attatggaaa	tcagaaga	cggaaata	ggatttat	ataccggg	ggggcagctt	60
atctccttc	ccatgggaa	gggatggt	ccttccttc	tcagcttcag	ccgcccggag	120
agctggcaga	cccgaagat	acgggtcgc	ggtgtgaata	tcgtgcccat	gggtgccaat	180
aacgaccttc	ccggcgacgt	acaacgcct	ctggataact	tttacggcgg	tgagggtatc	240
atgggtaaaa	tacagggatt	gcagtgggga	gagggcccc	gcttccttga	ggaggccatc	300
gactccgaaa	acaaccgctt	ttaccgcaa	tggatactcg	atgacgtcat	acaggcggat	360
ctggagagtt	gggattaccg	cgactatat	ctccgctgcc	tggtggacct	ggtgcacatg	420
caagggttct	gggtaaagtt	catccgtaac	cggggaccgc	gtatcggaga	ggatggaagg	480
ataatcagge	tggaacatat	cccttacagg	aatgcccgt	tcgaatatcc	cgatgacaga	540
cacgatttgc	cacagaacgt	atatgtgggg	cgactggggc	cttccccgat	cccgcacagg	600
ctggggccaaa	tatcccgttt	tcaatccggc	ggaccccgtt	ccggcatccg	gtatcggtcg	660
gctattccaa	catatactcc	ttttgcaggg	actttgtcag	cacgccccgt	ttcctggggg	720
ctttcccgtg	gctggaactg	gcgggcacca	tcgccccctt	gctggcagcc	tataatgcc	780
acgcgtcggc	actga					795

&lt;210&gt; 1065

&lt;211&gt; 858

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1065

accggatctg	tatgtaccct	cgatcaccct	tcaatcaaaa	ggcataacat	tctgactatg	60
aaagaaatta	cgtacaacaa	tcaaaagaaa	gagattccgg	actccctgga	ggagttatcc	120
cccaaggagt	attaccgtta	cctggagttg	gtattaatga	tgaacgcggg	ggagatttct	180
cctttccaga	tgcgctgcaa	gctgctttcc	tgcttcttgg	ggatgaagca	cagccttctt	240
ctgtgcctgg	gagaaatata	ggaagagctt	ttggcgcaac	tccccgccct	ggacgggttc	300
ttcgatatca	cctcgcagga	ggggatgatg	gtttacgacg	cccgcctgaa	aactggccgg	360
aacctgctgc	ccgcctataa	ggagtggaaa	ggcccggggg	atatgctctc	ggggattact	420
ttcggacagt	ttatcgagtg	catgggggtg	atggcgga	tggagcgcgc	ccgggagcag	480
ggaaatgaag	aagatatagg	ggaactgata	tcttctatag	gcagactgct	ttataagaaa	540
cagggccctc	aggaaaccgg	cactcctcct	ttcccgttct	gcttccacgc	atacatcttc	600
tttctcgcgg	tctgggagct	gatttacagt	gtccccattt	caaccaacgg	gaaggacatc	660
gactttctcga	tctgtttcga	gaaatccggg	cgggggaatg	caggggacaa	taccggctgg	720
gtgggaatct	cgtacgacgt	ggccgcacgc	ggtgttttcg	gtgatttcag	acaggtaaac	780
gacacccctt	tctgggatgt	gatgctatac	atttataaat	gcaggtttga	aatgttacat	840
aacaataaga	agcaatga					858

&lt;210&gt; 1066

&lt;211&gt; 507

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1066

aaaggcgaat	cgaaaacatt	aaaaatagga	aaaaagacta	tggggcaatt	agacaaaacg	60
gatgttgaaa	tacttcaggt	attacagaaa	gatgcgaaa	tgaacactaa	agagctttct	120
gagaagctcc	atatatcaaa	aacgcgcgata	tatgaacgca	tcaaacgact	cgaaaatgat	180
gggtatataa	aaggatatgt	cgctttgggtg	gataataaaa	aagtcgggatt	gcctttgatt	240
gttttctgta	atgtctctct	ggcagttcac	gacgacgaac	atataaagcg	ctttcaagag	300
gagatcaagg	agatcgatga	aattatggag	tgctattcta	ccggcgggtat	ttatgatttt	360
ttcattaagg	tggtcttgaa	agatctggat	gcctataacc	gattcgtttt	tgagaaactg	420
actaaagttc	acggtatagt	taagatgcag	agttcgtttg	ttcttagtga	gattaaacat	480
acgacagttt	tgaatataga	ccgatga				507

&lt;210&gt; 1067

&lt;211&gt; 648

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1067

cagctcttgt	tggcccggtca	ggaagtggaa	aagagtacgg	taatgaaact	ttgtgcccggt	60
ttttatgatc	cgacaaaagg	gcgtatactg	tttggtggag	taccggtacg	agagattgaa	120
cctgaaaaat	tgatgagtcg	tatttcgatg	gtttttcagg	atgtttatct	atttcaggat	180
agcatacgca	acaatattcg	gtttggtaaa	agtgatgcca	cagatgaaga	gattgtagca	240
gcgcccaaaa	aggcctgttg	tcacgacttt	atcatgcac	tgccacatgg	ttacgatata	300
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cgtgccatgc	tgaaaagacgc	acagatcggt	ctgctggacg	aggcaactgc	ttcgcttgat	420
cccgagaacg	aagtagagat	acagaaggct	atcgatacgt	tgattaaagg	acgaacgggt	480
attgttatcg	cccacgtctt	caagacaata	atggggggccg	accacatcgt	tgtcttatcc	540
gatggaaaag	tggaagaaca	aggtacgcat	tcggaattga	tgtgccggga	tggtttatat	600
cggaagctct	ggaacattca	agaaagtaca	ttgggatgga	cattatag		648

&lt;210&gt; 1068

&lt;211&gt; 423

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1068

attatatacc	caaagggaat	taatatcatg	atacagacaa	tacaagtaca	aggaacagaa	60
aaacgcttat	accaacttat	tgctccattg	gtgatgaatc	cggatgtttt	aagtgcacaa	120
aataattatc	ctttttaaac	gacagaacaa	tacgtgtggt	tcattgctat	cgataaaaaa	180
tcggttgttg	gttttatgcc	ggtggagcat	agaaggagcg	gatgcgtaat	caacaactat	240
tatgtcagcg	gtgataaccg	tgaaacactc	tcattattaa	tctccagtgt	tttggagca	300
atcggaagag	aagtacgttt	gtttgccgtt	gttatggtca	accatcaggc	tgtatttgag	360
gaacacgggt	ttataatgga	gaaggcatgg	aaacgttatg	taaaaatgca	aaaagatgaa	420
tga						423

&lt;210&gt; 1069

&lt;211&gt; 1827

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1069

ataaatcggt	tgatcatggt	aaataagaag	aaagaagggc	tgtcccgtct	gtttgagatt	60
gcaggacaga	aaaaaagtct	gcttctgttg	gcaggcttgt	tatcggctgg	gagcgcggtg	120
tgtatgctca	taccttattg	ggcgatctac	cggatactct	atgaattgtt	gaaccatagc	180
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<210> 1070  
 <211> 558  
 <212> DNA  
 <213> B.fragilis

<400> 1070						
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cttgaacttt	ctatctggga	agacggcttc	actatgccct	gcgtctgcta	ttatgataag	180
gaaaaggatg	tttatatcct	tgtcgacggt	ttccaccgtt	attctgtgct	gaagacttcg	240
aaacgtatct	ttcagagaga	aaacgggatg	ttgctatttg	tggtaatcga	aaaggatctt	300
tccaatcgta	tgagttccac	tatccgccat	aatcgtgccc	ggggtacgca	caatatagaa	360
ctgatgtgcc	atattgttgc	cgaacttgat	aaggcaggca	tgtccgatca	atggattatg	420
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<210> 1071  
 <211> 1014  
 <212> DNA  
 <213> B.fragilis

<400> 1071						
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attcgtatta	tattccgtgc	tttcaacgga	ggcgggcaat	cgcttgatac	caccgggttg	180
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gcagaacatt	tacgcaaaact	ttcgttaggt	tttctgggta	aacgggatcc	gggtgattta	360
tcatccatgc	ttattaccga	ttttacaatg	gcggaaacag	gtatctcgca	ttatttgcct	420
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aaccgccttg	aagagtacct	gcaaggcatc	cgggtgatga	aagcctacaa	tctgctgggt	660
gatcgttttg	ttcgggttgcg	tgatgctttt	gccgaattac	gtcgtgcctg	cattcgggtg	720
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&lt;210&gt; 1072

&lt;211&gt; 354

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (280), (285)

&lt;223&gt; Identity of nucleotide sequences at the above locations are unknown.

&lt;400&gt; 1072

tcgtggaggt	atccacttga	tttaggggct	gtaaagctgt	ctgcacagca	aatgattgtg	60
cttacaccgg	tcttgcgata	tacagaagga	gaagaacagc	agctatttagc	tccggtagtg	120
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&lt;210&gt; 1073

&lt;211&gt; 471

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1073

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gccagtgtct	tatccatgac	gctaggggtg	agagtcagca	acattgtgag	tcatgatgta	180
tatgataaac	aaggtgaaa	gcattttggc	ataacacaa	tgccgattcc	tatacttgga	240
gcttcacagg	agaagataaa	agagctccgg	aactatttcc	actctttaga	aattgaagat	300
ctgggtactg	ttgacttttc	cactattgcc	caacaatcca	gaacttatga	tgaatatgaa	360
cgtgaaatgt	atagtgccaa	tgaagatgat	ctgcactatg	taggtatcgg	tattttgtga	420
gagaagaaag	ctataaataa	agcaaccggc	agcctgagtc	tgatcagata	a	471

&lt;210&gt; 1074

&lt;211&gt; 183

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1074

ttgataaggc	agctatactt	gccgttattg	gcgaacatac	ggatttcgcc	acacgtaaaa	60
aatcggttgc	aggcgttgaa	tgtaggaact	acctacagga	tggtactgag	ggactattat	120
ccgcctacac	gtagtaatgt	atataccatt	tttaatgtgg	cgagagcttt	caatgtagtc	180
tag						183

&lt;210&gt; 1075

&lt;211&gt; 1305

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1075

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gatgccgtgc	gcacctgctg	tctgatcggt	attcgtacgc	aggaaagttt	caatcgttgg	540
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aaacgaaatc	aagtaatcga	acaatataaa	aacatattgc	aatga		1305

&lt;210&gt; 1076

&lt;211&gt; 291

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1076

agcggaatca	ataatgtttc	cgccacgatg	ttttcaaatt	catgtttttg	tttcattcta	60
tactttttatg	atgttagtgt	cagagtagcg	ctgaaaaatg	aacggtatcc	aaaatcgttc	120
acaaaaaaag	aagagaacct	tcgtaaagat	tctcttctca	attttaatcc	ggtaaacggc	180
gatttatatt	tttgtcttct	attgctcata	ctctcagcaa	agccctccaa	ccttgaattt	240
caaacaatat	atactcatgc	acgatatact	ccatttcctt	gctatcgata	g	291

&lt;210&gt; 1077

&lt;211&gt; 327

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1077

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cttcatccgg	aagtcgaagt	cagaaaatgt	attggagtgc	aaccgatga	aaactatgct	180
atagcccgcg	tcaataaaaa	aattataaaa	aaattagaaa	ggaagtatca	gacatccatg	240
atggatgact	ccataaaaaat	actacttccg	ccgttcaacg	aagatgaaaa	tatcttcctg	300
aattggaaag	cgctactccc	tccataa				327

&lt;210&gt; 1078

&lt;211&gt; 924

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1078

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acccatagcc	tggcacgtgt	cctgaaagag	ggaaccacag	gagtggagca	gttttatgcc	180
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ctattagttt	taaagaataa	atga				924

&lt;210&gt; 1079

&lt;211&gt; 954

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1079

aatggtggtt	gtttgataaa	aaggaacttt	ttctgtcctt	tgcagtacct	ccgtcacata	60
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gccgacgatg	acattggatt	tgggatctat	acggatattg	cagatcttcc	tatgaccggg	180
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&lt;210&gt; 1080

&lt;211&gt; 645

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1080

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&lt;210&gt; 1081

&lt;211&gt; 867

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1081

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aagatagata	accatcacca	ctcgtgtatc	ttatttcttt	taaaagggga	aatactgaca	180
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gaaaagagtt	gtttttattc	cttatctatc	tgtcctccgc	tacgacatgt	gttggacagt	420
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&lt;210&gt; 1082

&lt;211&gt; 603

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1082

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tag						603

&lt;210&gt; 1083

&lt;211&gt; 594

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1083

tcagtatata	taatagaaga	aacgagtatg	aaaaagctaa	ttctgttttg	agccgcaata	60
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&lt;210&gt; 1084

&lt;211&gt; 360

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1084

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 <213> B.fragilis

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&lt;210&gt; 1089

&lt;211&gt; 1455

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1089

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&lt;210&gt; 1090

&lt;211&gt; 3270

<213> B.fragilis

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 <212> DNA  
 <213> B.fragilis

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&lt;210&gt; 1096

&lt;211&gt; 213

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1096

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&lt;210&gt; 1097

&lt;211&gt; 3303

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1097

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 B.fragilis  
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 3303  
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&lt;211&gt; 990

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1098

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<210> 1110  
 <211> 183  
 <212> DNA  
 <213> B.fragilis



&lt;400&gt; 1110

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&lt;210&gt; 1111

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1111

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&lt;210&gt; 1112

&lt;211&gt; 2031

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1112

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 <212> DNA  
 <213> B.fragilis

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 <212> DNA  
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 <212> DNA  
 <213> B.fragilis

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<210> 1116  
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 <212> DNA  
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<210> 1117

<211> 1584  
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 <213> B.fragilis

<400> 1117

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 <212> DNA  
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<210> 1119  
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 <212> DNA  
 <213> B.fragilis

<400> 1119

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&lt;210&gt; 1120

&lt;211&gt; 240

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1120

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&lt;210&gt; 1121

&lt;211&gt; 204

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1121

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&lt;210&gt; 1122

&lt;211&gt; 1065

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1122

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&lt;211&gt; 1074

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1123

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&lt;211&gt; 852

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1124

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 <213> B.fragilis

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 <212> DNA  
 <213> B.fragilis

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&lt;211&gt; 3297

&lt;212&gt; DNA

&lt;213&gt; B. fragilis

&lt;400&gt; 1129

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&lt;210&gt; 1130

&lt;211&gt; 1773

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1130

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 <213> B.fragilis

<400> 1131

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 <213> B.fragilis

<400> 1132

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<210> 1133  
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 <212> DNA  
 <213> B.fragilis

<400> 1133

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&lt;210&gt; 1134

&lt;211&gt; 246

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1134

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gagtga						246

&lt;210&gt; 1135

&lt;211&gt; 252

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1135

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&lt;210&gt; 1136

&lt;211&gt; 1230

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1136

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&lt;210&gt; 1137

&lt;211&gt; 1131

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1137

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&lt;210&gt; 1138

&lt;211&gt; 198

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1138

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&lt;210&gt; 1139

&lt;211&gt; 465

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1139

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465

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<213> B.fragilis

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<210> 1141  
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<212> DNA  
<213> B.fragilis

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cgatacattt tgaacatcac tttcggcaga cccccctcg gctctacggt catacctgac 180  
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<212> DNA  
<213> B.fragilis

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aatggaattg tagatgaagc tggtctggaa aagctgaaac tcaatatacg ttctctgatc 180  
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<212> DNA  
<213> B.fragilis

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gatccgattt caaagtcggg aggaattgag caagatatcc cacctcccca tattccaccg 180  
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<213> B.fragilis
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 <213> B.fragilis

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 <212> DNA  
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&lt;211&gt; 2946

&lt;212&gt; DNA

&lt;213&gt; B. fragilis

&lt;400&gt; 1152

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&lt;211&gt; 342

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1153

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&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1154

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 <212> DNA  
 <213> B. fragilis

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 atctgtgcgg cacctcatac aacgaatatg gacctcttta tcggtaaact gttttatgga 180  
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 atcttgttca aggccgtagg cggcattccc gtaaategag gacgcaaaag ctcactggta 300  
 gaacaaatgg cagaggtctt tgccaaaaga cctaagtttc atcttgcaat cactcccga 360  
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 caagtcctta ttgtgctgat cggaatcgat tacaatacga aaacagttac ctccacaaaa 480  
 gcaatcatgc ccagcggaga cattgaaaag gatatgcgtg aaataaaact ttatttcaaa 540  
 gatttcaagg gaaaacatcc cgagaacttc tccattggag acgttgaatg a 591

<210> 1156  
 <211> 1383  
 <212> DNA  
 <213> B. fragilis

<400> 1156  
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 gacgatcatg tacatttccg tgatccggga ctaaccacac aagccgacat ctctaccgaa 240  
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 caaacgacca cactggatgc gctcaatgcc aagttcgatc tgcttgccga aaagtgtagc 360  
 gttaactatt cgtgctatct cggggcaacc aataataact ataccgagtt cgacaaactg 420  
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<210> 1157  
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 <212> DNA  
 <213> B. fragilis

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 cgtgatctgg gaggttatcc gacatcagac cataaacatg taaaatggaa aacattcatc 180  
 cgttcgggag atcttgacaa actgacagaa tccgatctgg actatcttac ctcttgcac 240

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caaaatgctc	aggatactta	tcgggaattc	ttccggattg	tttcggaaga	acggaatact	480
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accgaataa						789

&lt;210&gt; 1158

&lt;211&gt; 486

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1158

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gtatag						486

&lt;210&gt; 1159

&lt;211&gt; 792

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1159

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aaaatgaatt	aa					792

&lt;210&gt; 1160

&lt;211&gt; 2070

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1160

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<212> DNA  
<213> B.fragilis

<210> 1162  
<211> 198  
<212> DNA  
<213> B.fragilis

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tatgtcttgt	ttggatag						198

<210> 1163  
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 <212> DNA  
 <213> B.fragilis

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 gttagccattg tgccccaacc caactggcgt gacgacttgc gtgactttcg caagctggga 300  
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 cgggaaaagt tggcacaag acaatttttc ttttggtata aaccggaaga acgacggaat 1860  
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<210> 1164  
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 <212> DNA  
 <213> B.fragilis

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<210> 1165  
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 <212> DNA  
 <213> B.fragilis

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<210> 1166  
 <211> 792  
 <212> DNA  
 <213> B.fragilis

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<210> 1167  
 <211> 1254  
 <212> DNA  
 <213> B.fragilis

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&lt;210&gt; 1168

&lt;211&gt; 2589

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1168

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ataaaaataa						2589

&lt;210&gt; 1169

&lt;211&gt; 1107

&lt;212&gt; DNA



&lt;213&gt; B.fragilis

&lt;400&gt; 1169

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&lt;210&gt; 1170

&lt;211&gt; 942

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1170

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&lt;210&gt; 1171

&lt;211&gt; 879

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1171

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&lt;210&gt; 1172

&lt;211&gt; 450

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1172

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&lt;210&gt; 1173

&lt;211&gt; 1095

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1173

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cgtttttaatc	cgtaa					1095

&lt;210&gt; 1174

&lt;211&gt; 258

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1174

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atctcctatt ttctttaa 258

<210> 1175  
<211> 2712  
<212> DNA  
<213> B.fragilis

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tatggctcac agaaaaaggt taatgtcacc ggtgccgtag gcatgggtcaa ttccgaagta 480  
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<210> 1176  
<211> 732  
<212> DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1176

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&lt;210&gt; 1177

&lt;211&gt; 825

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1177

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&lt;210&gt; 1178

&lt;211&gt; 963

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1178

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<212> DNA  
<213> B.fragilis

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atcatgaacg tagctgtccc ttttcccag cattegccca tgttggggca acgcccactg 420  
ctacagatgg tgtgcaggca gtgcgattcg acaatgcgtt tggctcgggt atag 474

<210> 1180  
<211> 1110  
<212> DNA  
<213> B.fragilis

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<221> unsure  
<222> (1097)  
<223> Identity of nucleotide sequences at the above locations are unknown.

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 <212> DNA  
 <213> B.fragilis

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&lt;210&gt; 1184

&lt;211&gt; 624

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1184

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&lt;210&gt; 1185

&lt;211&gt; 435

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1185

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ggtctgaaag	attag					435

&lt;210&gt; 1186

&lt;211&gt; 2238

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1186

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&lt;210&gt; 1187

&lt;211&gt; 846

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1187

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&lt;210&gt; 1188

&lt;211&gt; 1209

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1188

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&lt;210&gt; 1189

&lt;211&gt; 879

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1189

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&lt;210&gt; 1190

&lt;211&gt; 615

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1190

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 <212> DNA  
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<210> 1192  
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 <212> DNA  
 <213> B.fragilis

<400> 1192  
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 aatacgtata agcaacaaga tccgcaccg cgctatcatg ccggaatgc tgccatcgtg 240  
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<210> 1193  
 <211> 1533  
 <212> DNA  
 <213> B.fragilis

<400> 1193  
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 ttcggctggc tggcaaaagat ccagttcctc cctgcagtag tggcattgaa cgtaggagta 180

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&lt;210&gt; 1194

&lt;211&gt; 798

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1194

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ttcgacagaa	tagaactgga	gactcccatc	atattcacaa	ccgcttatga	ccgatatgcc	300
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agggatagcg	taacggatat	aaccatctgg	ttcgacagcc	gtctacttat	cacgctcgat	720
acagaagtac	cggaacgtat	ttatgtcagc	aaaaacaaa	catcggaatt	taaaacatgg	780
cttgtaaacg	ataaataa					798

&lt;210&gt; 1195

&lt;211&gt; 843

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1195

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aatatcagct	atatctatta	tggaggaaca	gctgagacat	tgggcatagc	ccgaaaagga	300
gacaatcaaa	atcttgaatc	aatctgggaa	aaagaagtct	ttaaatatat	ccatccggat	360
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gatagggaga	aaacaatatt	acagttgatc	gatatgggga	aaacaagtca	tgagatcgcc	720
cgggaaactgt	ttataagcaa	aaataccgtc	agccgacacc	gacaaaatat	attggaaaag	780
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taa						843

<210> 1196  
 <211> 588  
 <212> DNA  
 <213> B.fragilis

<400> 1196						
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tattacatca	taattatgga	aacaacatct	atcaagcttt	attcattgaa	ttacaatgat	120
acgaaaacgt	atctgacaac	actgctatct	gtagtgggca	atatggcact	cccccaactt	180
ttccatctca	ttccgcaagg	tggtatcact	tggttaccca	tctatttttt	tactctgatc	240
ggagcttata	aatacggatg	gaaagtaggg	ttactgacag	cacttctatc	gcctgtttta	300
aactcattat	tggtcggcat	gcctcaaccg	gtgatcttac	cgcgcatact	cttaaaatcg	360
acacttctag	cgatagctgc	cggttatgca	gccaccgct	acaaacgcat	ttccatccct	420
atcctcctcc	tggtcgtgtt	atcctatcag	gtggtcggca	ctttaggcga	atggatcctt	480
gtcaacgatt	ttttcagtgc	cgtacaggat	ttccgtatcg	gtctgcgggg	aatggctctg	540
caaataattcg	gaggctatct	gtttataagt	cgtttgattt	ataaataa		588

<210> 1197  
 <211> 264  
 <212> DNA  
 <213> B.fragilis

<400> 1197						
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aaaattagtc	aatcattaag	aggtagaagc	aagtcagctt	cgcatatcca	agcaatatca	180
caaggcatga	ctaattactg	gaagactata	ccagtcacaaa	cagatgataa	cccaagtgat	240
aaaacaaaaa	aagaggggca	ataa				264

<210> 1198  
 <211> 639  
 <212> DNA  
 <213> B.fragilis

<400> 1198						
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gttgaggctg	tatttgcaga	aaaggtatct	ggagcgaaaa	agaatactga	acgcatagaa	180
ttaatgaata	tgataaacta	tatcaactca	cacaacatac	ataaggtagt	agtaaccgaa	240
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aacaaagtat	cagtattcat	tcaaaattat	aatattgaaa	cgcttactcc	agaggggagaa	360
atcaatccta	tgagccagtt	tcttattact	atacttgccg	aagtagcacg	aatggaacgc	420
aagactatta	gagaacgtgt	tgcaagtggg	taccagaatt	tccgtagcaa	tggtggtaag	480
gtagggcgaa	aagttggata	tacgaaaagc	gatgaggta	tgaggggaaga	gtatgcagaa	540
gaattaagat	tactgaaaag	agggtagtca	ctgcgaaata	cctcaaaact	gacgggaaca	600
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<210> 1199  
 <211> 1344  
 <212> DNA  
 <213> B.fragilis

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gatctctact	ctctcggcgt	cggggaactt	ggagtgatag	attcccaacc	cgggaaccga	1320
acacccgttt	cagccgttcg	gtga				1344

&lt;210&gt; 1200

&lt;211&gt; 198

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1200

ctaaaaacaa	cgaccggacg	agtaaatcag	tataccatat	ttcccactat	gcgggagctg	60
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aataaattta	aaacggcatg	taaccaaata	cgcagcgcaa	tgaacaggac	tgaacactac	180
aactccacca	cacaatag					198

&lt;210&gt; 1201

&lt;211&gt; 192

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1201

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gaaaagcaag	cagcagtggg	cggtttgaac	gctaccttga	agaaactctt	ggatgcttat	180
gcagctgaat	aa					192

&lt;210&gt; 1202

&lt;211&gt; 1260

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1202

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&lt;210&gt; 1203

&lt;211&gt; 1296

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1203

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&lt;210&gt; 1204

&lt;211&gt; 498

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1204

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<400> 1209

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gcccgctt	gccaccgt	tggatatg	gttcattc	catttgct	cgacttg	180
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tgggcacg	ctttgtatt	gcaggcgg	catgctaa	ccgattat	gggtgctt	420
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<210> 1210  
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 <212> DNA  
 <213> B.fragilis

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 <212> DNA  
 <213> B.fragilis

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tag						723

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 <212> DNA  
 <213> B.fragilis

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<210> 1213  
 <211> 1380  
 <212> DNA



&lt;213&gt; B.fragilis

&lt;400&gt; 1213

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&lt;210&gt; 1214

&lt;211&gt; 984

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1214

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&lt;210&gt; 1215

&lt;211&gt; 252

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1215

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tcagcgagat	ag					252

&lt;210&gt; 1216

&lt;211&gt; 675

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1216

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&lt;210&gt; 1217

&lt;211&gt; 690

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1217

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&lt;210&gt; 1218

&lt;211&gt; 372

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1218

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ctttcgggga	agggctttat	cactattgat	ggcgaaaaga	tagaattgca	ggctggggat	240
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&lt;210&gt; 1219

&lt;211&gt; 945

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1219

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&lt;210&gt; 1220

&lt;211&gt; 231

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1220

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&lt;210&gt; 1221

&lt;211&gt; 276

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1221

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&lt;210&gt; 1222

&lt;211&gt; 183

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1222

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tga						183

&lt;210&gt; 1223

&lt;211&gt; 462

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1223

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&lt;210&gt; 1224

&lt;211&gt; 192

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1224

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aatacaaat	ag					192

&lt;210&gt; 1225

&lt;211&gt; 2547

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1225

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&lt;210&gt; 1226

&lt;211&gt; 222

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1226

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&lt;210&gt; 1227

&lt;211&gt; 1194

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1227

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&lt;210&gt; 1228

&lt;211&gt; 189

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1228

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caaaacactc	catccgctgg	taagtgtaat	cgacctgtca	aagagcgatc	tggaaacagca	180

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189

<210> 1229

<211> 537

<212> DNA

<213> B.fragilis

<400> 1229

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$\langle 210 \rangle$  1230

<211> 603

<212> DNA

<213> B.fragilis

 $\langle 400 \rangle$  1230

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 $\langle 210 \rangle$  1231

<211> 237

<212> DNA

<213> B.fragilis

 $\langle 400 \rangle$  1231

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ttacctaaag	atcttaccac	agctaaaaat	attaatatcc	gaattttctc	tactgccata	180
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 $\langle 210 \rangle$  1232

<211> 279

<212> DNA

<213> B.fragilis

 $\langle 400 \rangle$  1232

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atcgcattag	tggaataccg	tttcatgcgg	aagtgtccca	tcaagacttt	cagaaatgcc	180
tgtacaacca	gtttaatgaa	caagaaatcg	ttcatgaaag	aggctcttcag	aaagcataca	240
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 <213> B.fragilis

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&lt;210&gt; 1236

&lt;211&gt; 972

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1236

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&lt;210&gt; 1237

&lt;211&gt; 1179

&lt;212&gt; DNA

&lt;213&gt; B.fragilis

&lt;400&gt; 1237

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<210> 1238  
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<212> DNA  
<213> B.fragilis

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<213> B.fragilis

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<212> DNA  
<213> B.fragilis

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